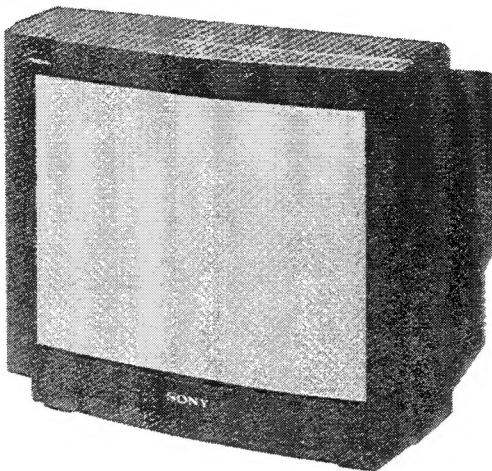


# KV-X2141D/X2541D/X2941D

RM-816

## SERVICE MANUAL



AEP Model

KV-X2141D

Chassis No. SCC- F07M-A

KV-X2541D

Chassis No. SCC- F07N-A

KV-X2941D

Chassis No. SCC- F07L-A

**AE-1C CHASSIS**

[KX-X2141D/X2541D/X2941D]

### SPECIFICATIONS

MODELS OF THE SAME SERIES	
KV-M2531D	KV-E2521D/E2921D
KV-M2521D	KV-A2911D
KV-A2111D/A2511D	KV-C2121D

Television system. B/G/H  
Colour system. PAL/SECAM,NTSC3.58,NTSC4.43  
Stereo system. GERMAN stereo.  
Channel coverage. VHF: E2-E12 UHF: E21-E69  
CABLE TV (1) : S1-S41  
CABLE TV (2) : S01-S05, M1-M10,  
U1-U10.  
Picture tube. Hi-Black Trinitron tube  
Approx. 55 cm [21 inch]  
(Approx. 51 cm picture measured  
diagonally)  
100°-degree deflection  
Approx. 63 cm [25 inch]  
(Approx. 59 cm picture measured  
diagonally)  
110°-degree deflection  
Approx. 72 cm [29 inch]  
(Approx. 68 cm picture measured  
diagonally)  
110°-degree deflection  
Rear Input/Output  
Sockets : **⊖**- 1/21-pin Euroconnector:  
(CENELEC standard) inputs for Audio/  
Video signals and RGB.  
Outputs for Audio and Video signals.  
**⊖** 2/ **⊕** 21-pin Euro connector: inputs  
Audio / Video and S-Video signals.  
**⊕** Audio output (variable) - phono jacks

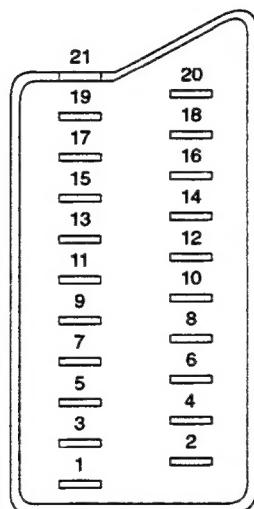
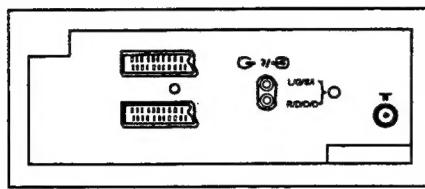
Front Input/Output  
Sockets. **⊖** Video input - phono jack.  
**⊖** Audio inputs - (L,R) phono jacks.  
**⊕** S-Video input - 4pin DIN.  
Headphone jack output : stereo mini jack.  
15W+15W (Music)  
87Wh (KV-X2141D)  
101Wh (KV-X2541D)  
109Wh (KV-X2941D)  
Dimensions. Approx. 513 x 438 x 474mm (w/h/d) 21inch  
Approx. 575 x 489 x 480mm (w/h/d) 25inch  
Approx. 656 x 554 x 512mm (w/h/d) 29inch  
Weight. Approx. 25.5kg 21inch  
Approx. 35kg 25 inch  
Approx. 52kg 29inch  
Supplied accessories. RM-816 Remote Command (1)  
IEC designation R6 batteries (2)  
**[RM-816]**  
Remote control system infrared control  
Power requirements. 3V dc  
2 batteries IEC designation  
R6 (size AA)  
Dimensions. Approx. 75 x 221 x 23mm (w/h/d)  
Weight. Approx. 230g (including batteries)

Design and specifications are subject to change without notice.

**TRINITRON® COLOR TV**  
**SONY®**



21 - pin Euro Connector Configuration



21 pin connector ( 1. 2.)

Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : less than 1Kohm.
2	○	○	Audio inout B (right)	Standard level : 0.5Vrms Input impedance : More than 10Kohm.
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : less than 1Kohm.
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : more than 10Kohms.
7	○	●	Blue input	0.7V +/- 3dB 75ohms positive
8	○	○	Function select (AV control)	High state (9.5 - 12 V) : Part mode Low state (0 - 2 V) : TV mode Input impedance : more than 10Kohms Input capacitance : Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V +/- 3dB 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14			Ground (blanking)	
15	○	—	Red input	0.7V +/- 3dB. 75ohms. positive
	—	○	(S signal) chroma input	0.3V +/- 3dB. 75ohms. positive
16	○	●	Blanking input (Ys signal)	High state (1 - 3 V) Low state (0 - 0.4 V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V +/- 3dB. 75ohms. positive Sync : 0.3V (-3. +10dB)
20	○	—	Video input	1V +/- 3dB. 75ohms. positive Sync : 0.3V (-3. +10dB)
	—	○	Video Input/Y (S signal)	1V +/- 3dB. 75ohms. positive Sync : 0.3V (-3. +10dB)
21	○	○	Common ground ( plug shield )	

○ connected

● unconnected (open)

\* 20MHz - 20kHz

4 pin connector [ ]

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y ( S signal ) input	1V ± 3db 75ohm, positive Sync 0.3V
4	C ( S signal ) input	0.3V ± 3db 75ohm positive

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**CAUTION**

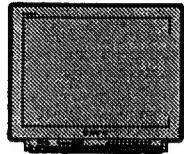
**SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE CAP.**

**SAFETY RELATED COMPONENT WARNING !!**

**COMPONENTS IDENTIFIED BY SHADING AND MARKED WITH  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

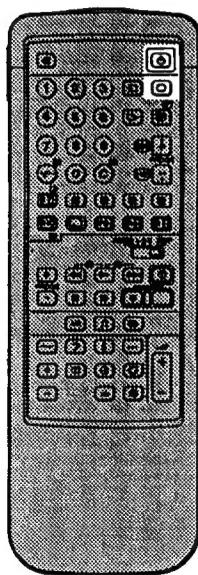
## 1-1. Switching on/off

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).



### How to turn the TV on

Action	Result
Press  on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press  to switch it on.



### How to turn the TV off

A Temporarily	
Press  to enter standby mode.	The TV will be in standby. To return to the TV mode press .
B Completely	
Press  on the TV.	The TV will turn off.

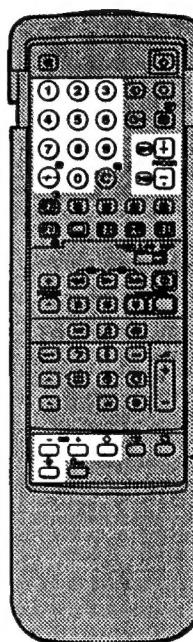
## 1-2. Presetting

After you have installed this TV you need to preset TV channels.

TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on this TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.

Slide open the full function side of the remote commander to reveal preset buttons.

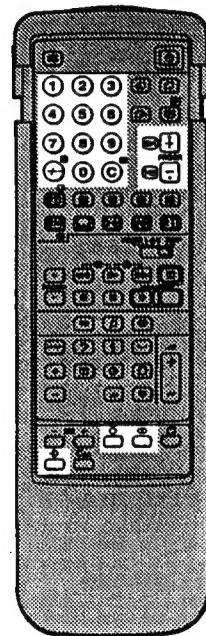


Note: These buttons should be used in preset mode only.

### How to preset channels automatically

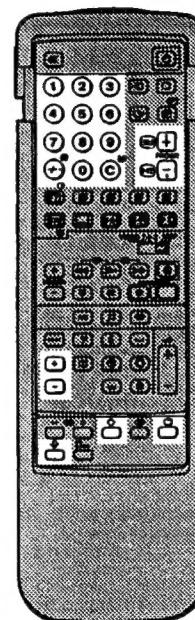
If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

Action	Result
1 Press  to enter the preset mode.	 The programme number will start flashing.
2 Press PROGR + or - or the number buttons to select the programme number to which you want to preset channels.	 The programme number changes 
3 Press  + or - once to search forward or backward for channels.	 When a channel is tuned in, the search will stop. Note: If you want to skip a channel, press  + or  -.
4 Press  if you want to store the channel which is tuned in. Press  to exit preset mode without storing.	 The channel is now stored and you have returned to TV mode.
5 Repeat steps 1 to 4 to store the other channels.	



### How to preset channels directly

Action	Result
<b>1</b> Press  to enter the preset mode.	The programme number will start flashing.
<b>2</b> Press PROGR +/- or the number buttons to select the programme number on which you want to preset a channel.   <b>Note</b> To select a double-digit number, use the -- button. For example, if you want to choose 23, press --, 2, and then 3.	The programme number changes.
<b>3</b> Press C. If you want to select a cable channel, press C twice.  	The indication "C--" ("S--" for a cable channel) starts flashing on the display.
<b>4</b> Select the channel number with two digits (e.g. 04) by pressing the number buttons.   <b>Note</b> Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.	The channel number changes.  <b>Note</b> If you have made a mistake the letter "X" will appear. Repeat step 4 again.
<b>5</b> Press  to store the channel which is tuned in. Press  to exit the preset mode without storing.  	The channel is now stored and you have returned to TV mode.  <b>Repeat steps 1 to 5 to store the other channels.</b>



### How to Name a Station

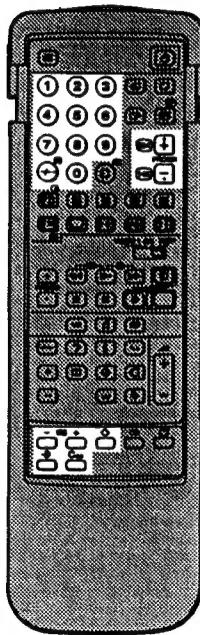
You can use up to five characters to "name" a channel or station (i.e. BBC1).

Action	Result
<b>1</b> Select a programme number you want to name by pressing the PROGR +/- or the number buttons  	The selected programme number will appear.
<b>2</b> Press .	The programme number starts flashing.
<b>3</b> Press C.	The first column of the station name indication will start flashing.
<b>4</b> Press + or - to select a letter in the alphabet, a number, or a blank space.  	The letters of the alphabet, numbers and the space (" ") will appear sequentially.
<b>5</b> Press C.	The first character is now set and the second column will start flashing.
<b>6</b> Repeat steps 4 and 5 to set each letter.	
<b>7</b> Press .	The channel is now stored and you have returned to TV mode.

### How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

Action	Result
<b>1</b> Press C. For cable channels, press C twice.	The indication "C" ("S" for cable channels) appears on the screen.
<b>2</b> Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.



### How to Skip Programmes

Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
1 Press $\rightarrow$ to enter the preset mode.	
2 Select the programme number that you want to skip by pressing PROGR +/- or the number buttons.	
3 Press Coo.	
4 Press $\diamond$ .	
Repeat steps 1 to 4 to skip other programme numbers.	

### How to Fine Tune Manually

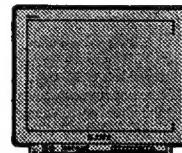
If the picture is distorted, you can fine tune the channel manually.

Action	Result
Press $\leftrightarrow$ + or - repeatedly until the picture looks normal.	The indication $\leftarrow$ F $\rightarrow$ appears on the screen.
Press $\rightarrow$ to enter the preset mode.	The programme number starts flashing.
Press $\diamond$ .	The fine tuning is stored.

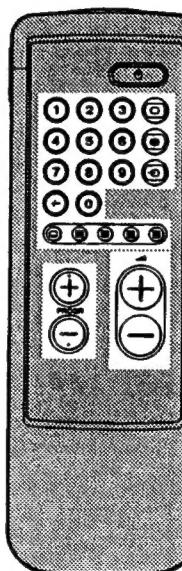
Note: The automatic fine tuning will function again when you preset the channel once more.

## 1-3. Basic TV operation

Note: Press  $\perp$  on door to open.



P  $\rightarrow$   $\downarrow$   $\rightarrow$   $\square$  + / -



This section introduces you to the basic control functions which are available on the simple side of the remote commander.

### How to Select Programmes

Before you can select programmes make sure that you have preset channels, refer to page 29.

Action	Result
Press PROGR +/- or the number buttons. To select a double-digit number, use the $\downarrow$ button. For example, if you want to choose 23, press $\downarrow$ , 2, and then 3.	

### How to Adjust the Volume

Action	Result
Press $\triangleleft$ + or -.	

### How to Use Additional Functions

#### How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the P  $\rightarrow$   $\downarrow$   $\rightarrow$   $\square$  and  $\rightarrow$   $\leftarrow$  +/- buttons on the front of the TV.

For operation, first press the P  $\rightarrow$   $\downarrow$   $\rightarrow$   $\square$  button repeatedly so that the P (for programme) or  $\triangleleft$  (for volume) indication appears on the screen, and then adjust with the  $\rightarrow$   $\leftarrow$  +/- buttons.

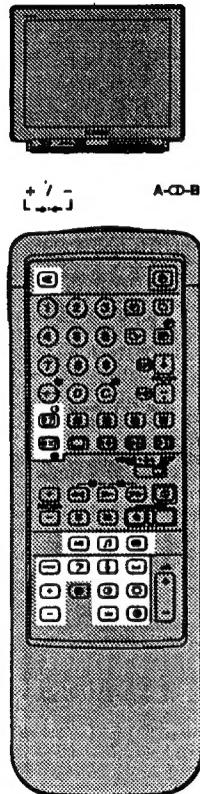
#### How to view the teletext

Press  $\square$ . To return to the TV mode, press  $\square$ . For details about the teletext operation, refer to page 33.

#### How to view the video input picture

Press  $\rightarrow$   $\square$ . To return to the TV mode, press  $\square$ . For further details, refer to page 36.

## 1-4. Advanced TV operation



This section shows you how to use convenient features and how to adjust the picture and sound to your taste.  
Use the full-function side of the Remote Commander.

### How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press <b>C3</b>	Indications disappear after some seconds
Display programme numbers	Press <b>C3</b> twice	Press <b>C3</b> twice again.
Mute the sound	Press <b>4K</b> .	Press <b>4K</b> again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-CD-B indicator on the TV lights up.	Press A/B.
Set the sound to music listening position	Press <b>J</b> .	Press <b>J</b> again.
Use the space sound (special acoustic effect)	Press <b>CB</b>	Press <b>CB</b> again.
Request the time	Press <b>C2</b> .	Press <b>C2</b> again.

### How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

#### For picture adjustment

To Adjust:	Press:	Then:	Result: (- -> +)
<b>Picture:</b>			
Colour Intensity	<b>●</b>		Less -> More
Picture Contrast	<b>●</b>	<b>[+]</b>	Less -> More
Brightness	<b>○</b>	<b>[-]</b>	Dark -> Light
Hue (for NTSC only)	<b>ND</b>		Greenish -> Redish
<b>Sound:</b>			
Bass	<b>7</b>	<b>[+]</b>	Less -> More
Treble	<b>8</b>	<b>[-]</b>	Less -> More
Balance	<b>4</b>		More Left/More Right

To reset the picture and sound to factory set levels press **- ->**.

#### On the set:

Press **- -> +/-** buttons simultaneously.

## 1-5. Teletext operation

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.

With the simple side of the Remote Commander, only the basic operation is possible.

### How to View the Teletext

Action	Result
<b>1</b> Select the channel which carries the teletext service you wish to see.	The channel changes on the screen.
<b>2</b> Press <b>□</b> .	Teletext will appear. If the teletext signal is not broadcast, then <b>p100</b> is displayed.
<b>3</b> Input three digits for the page number using the number buttons. <b>Note</b> If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.

To return to the TV mode.  
Press **□**.

To change the teletext channels  
First press **□** to return to the TV mode, then repeat steps 1 to 3.

**Note**  
If the signal of the TV channel is weak, teletext errors may often occur.

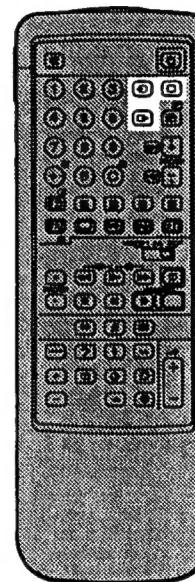
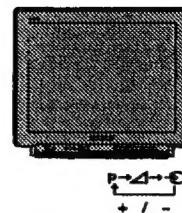
### How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press <b>□ (INDEX)</b> .	<b>INDEX</b>
Request the subtitle page (p888).	Press <b>□</b> .	The subtitle page is displayed (p888).
Access the next or preceding page.	Press <b>□ (PAGE +)</b> or <b>□ (PAGE -)</b> .	<b>P201</b>

## 1-6. Optional connections/operations

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press <b>TEXT</b> once if you are in text mode, or press <b>TEXT</b> twice if in TV mode. To return to the normal teletext display press <b>TEXT</b> again.	 The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press <b>TEXT</b> (HOLD).  To resume normal teletext reception, press <b>TEXT</b> (TEXT/MIX).	 The HOLD symbol (  ) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press <b>TEXT</b> once to enlarge the upper half. Press twice to enlarge the lower half.  Press again to restore the normal display.	 The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press <b>TEXT</b> (REVEAL).  Press again to conceal the information.	 The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.  2. Press <b>TEXT</b> (TEXT CL).  3. When the requested page has been captured, the page number remains and the other data disappears.  4. Press <b>TEXT</b> to view this page.	The numbers are entered.  The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.   P201  The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page.  2. Press <b>TEXT</b> (TP ON).  3. Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The requested page is displayed.  "T****" appears at the bottom of the screen or "0001" at the top.  The time is entered on the screen.
	To watch the TV programme until the requested time Press <b>TEXT</b> (TEXT CL). At the requested time, the page number will be displayed at the top of the screen. To view this page, press <b>TEXT</b> .  To cancel the request Display the teletext page, then press <b>TEXT</b> (TP OFF).	

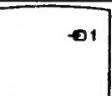
Some of the features may not be available depending on the Teletext service.



### How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

#### Operation

Action	Result
Press <b>INPUT</b> repeatedly to select the desired input.	 Symbol for the selected input appears. (See the table below.)

To return to the TV mode, press the **INPUT** button.

#### Input modes

Symbol	Result
<b>-D1</b>	Audio/video input through the <b>-D</b> connector.
<b>-D</b>	RGB input through the <b>-D</b> connector.
<b>-D2</b>	Audio/video Input through the <b>G-2/-D</b> connector.
<b>-S2</b>	S video input (from a VTR equipped with an S video output) through the <b>G-2/-S</b> connector.
<b>-D3</b>	Audio/video input through <b>-D</b> and <b>-D</b> jacks on the front.

You can also select the input mode using the **P → ← ↗ ↘** button on the TV. In this case, first select **-D**, and then press **+/ -** buttons to select the input.

### How to select the Output

The **G-2/-D** connector outputs four kinds of audio/video signals. You have to select one of them as follows.

#### Operation

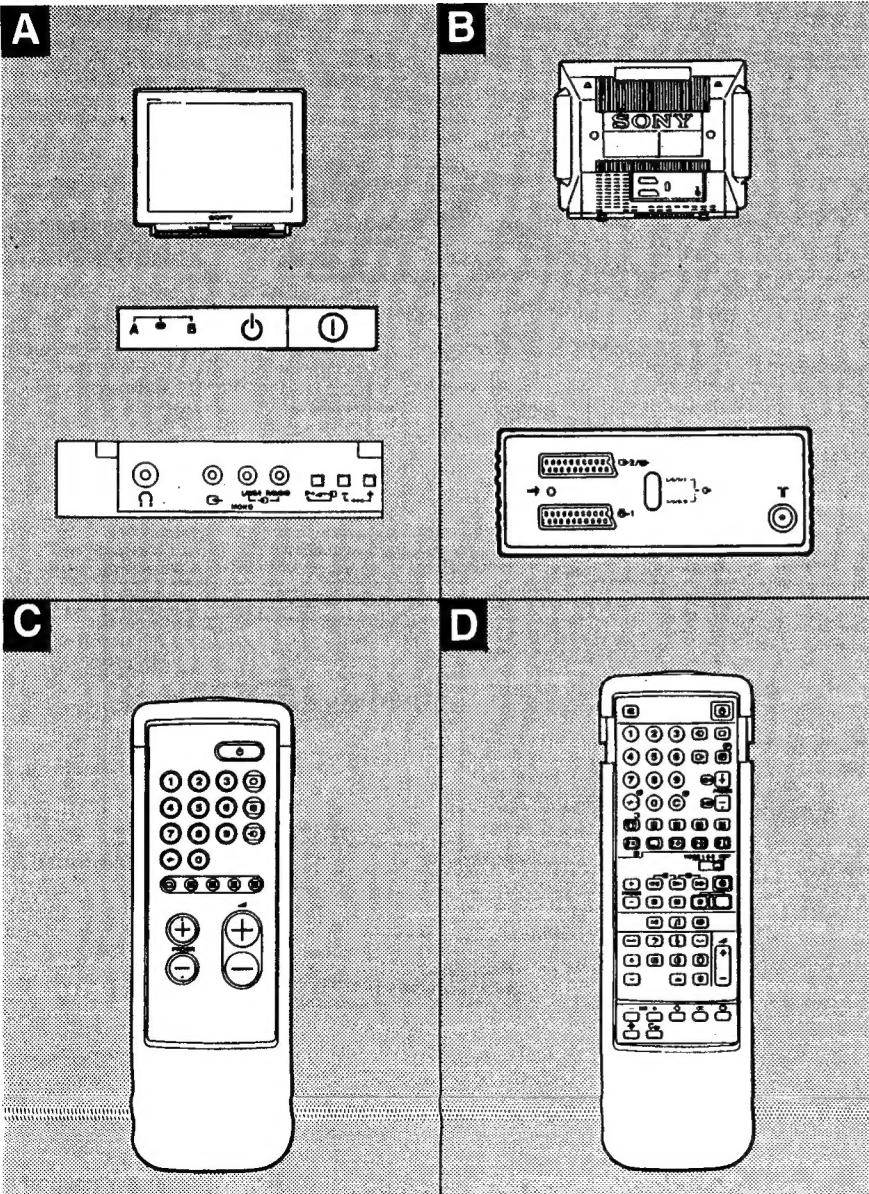
Action	Result
Press <b>OUTPUT</b> repeatedly to select the desired output.	 Symbol for the selected output appears. (See the table below.)

#### Output modes

Symbol	Output from
<b>1 G</b>	The audio/video signal from the <b>-D</b> connector
<b>2 G</b>	The audio/video signal from the <b>G-2/-D</b> connector
<b>3 G</b>	The audio/video signal from the <b>-D</b> , <b>-D</b> connectors.
<b>TV G</b>	The audio/video signal from the <b>TV</b> aerial terminal.

## 1-7. Additional information

Parts identification



This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

A TV set - Front	
Sign	Name
①	Main power switch
②	Standby indicator
A-C-B	Bilingual A/B Indicators
Ω	Headphones jack (stereo minijack)
—○—	Input jacks (Video/Audio)
P→△→—	Function selector (Programme/volume/input)
— / +	Adjustment buttons for function selector

B TV set - Rear	
Sign	Name
G+2-G3	21-pin Euro-AV connector (S-video/video input, TV/video output)
G	21-pin Euro-AV connector (RGB/video input, TV output)
G+	Audio output jacks (phono jacks)
T	Aerial terminal (IEC type)

C Remote Commander - simple side	
Sign	Name
—	Input mode selector
—	Teletext button
—	TV mode selector
②	Standby button
1,2,3,4,5, 6,7,8,9, and 0	Number buttons
—/—	Double-digit entering button
△/+/-	Volume control button
PROG +/-	Programme selector

D Remote Commander - full function side	
Sign	Name
OK	Mute on/off button
②	Standby button
1,2,3,4,5, 6,7,8,9, and 0	Number buttons
—	Input mode selector
—	TV power on/TV mode selector button
—	Output mode selector
—	Teletext button
—	Music button
—	Language selector in bilingual programme
—/—	Double-digit entering button
C	Direct channel entering button
—	Space sound button
—	Request time display
—	Teletext operation buttons
—	Toptext buttons
—	On-screen display button
—	Picture and sound adjustment reset button
△/+/-	Volume control
PROG +/-	Programme selector
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ +/—	Picture and sound controls
VIDEO 1/2/3, MDP	Video equipment selector
◀ ▶ ▷ ■ II ●	Video equipment operation buttons
COO	Programme number clear button
⇒	Channel preset button
- □ □ +	Tuning buttons
◇	Channel store button
—	Station label button

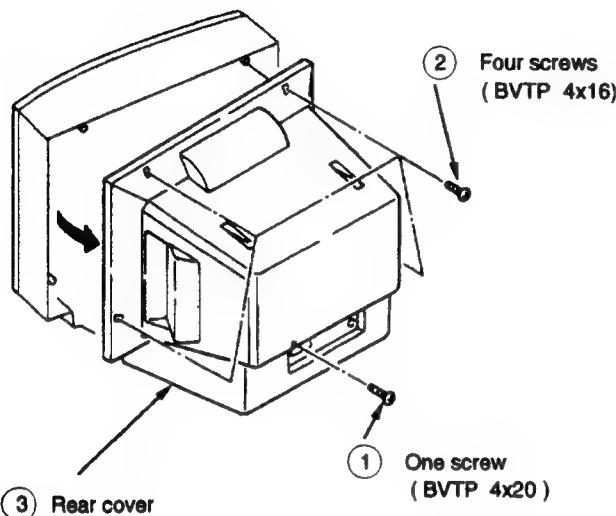
## 1-8. Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

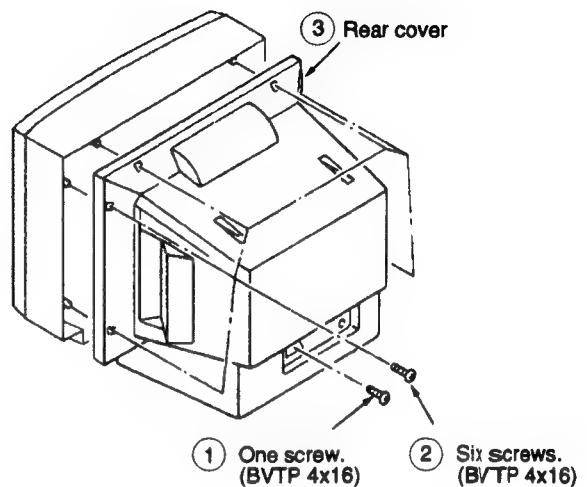
Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"><li>• Plug the TV in.</li><li>• Press <math>\odot</math> on the TV. (If <math>\odot</math> Indicator is on, press <math>\square</math> or the programme number on the Remote Commander.)</li><li>• Check the aerial connection.</li><li>• Check if the selected video source is on.</li><li>• Turn the TV off for 3 or 4 seconds and then turn it on again using <math>\odot</math>.</li></ul>
Poor or no picture (screen is dark), but sound good	<ul style="list-style-type: none"><li>• Adjust the picture with <math>\odot</math>, <math>\odot</math>, <math>\odot</math>, and + buttons.</li></ul>
Good picture but no sound	<ul style="list-style-type: none"><li>• Press <math>\triangleleft +</math>.</li><li>• Disconnect the headphones.</li><li>• If <math>\text{E}K</math> is displayed on the screen, press <math>\text{E}K</math>.</li></ul>
No colour for colour programmes	<ul style="list-style-type: none"><li>• Press <math>\text{---}</math> on the Remote Commander.</li></ul>
If you continue to have these problems, have your TV serviced by qualified personnel. Never open the casing yourself.	

## SECTION 2 DISASSEMBLY

### 2-1-1. REAR COVER REMOVAL (21 inch, 25 inch)

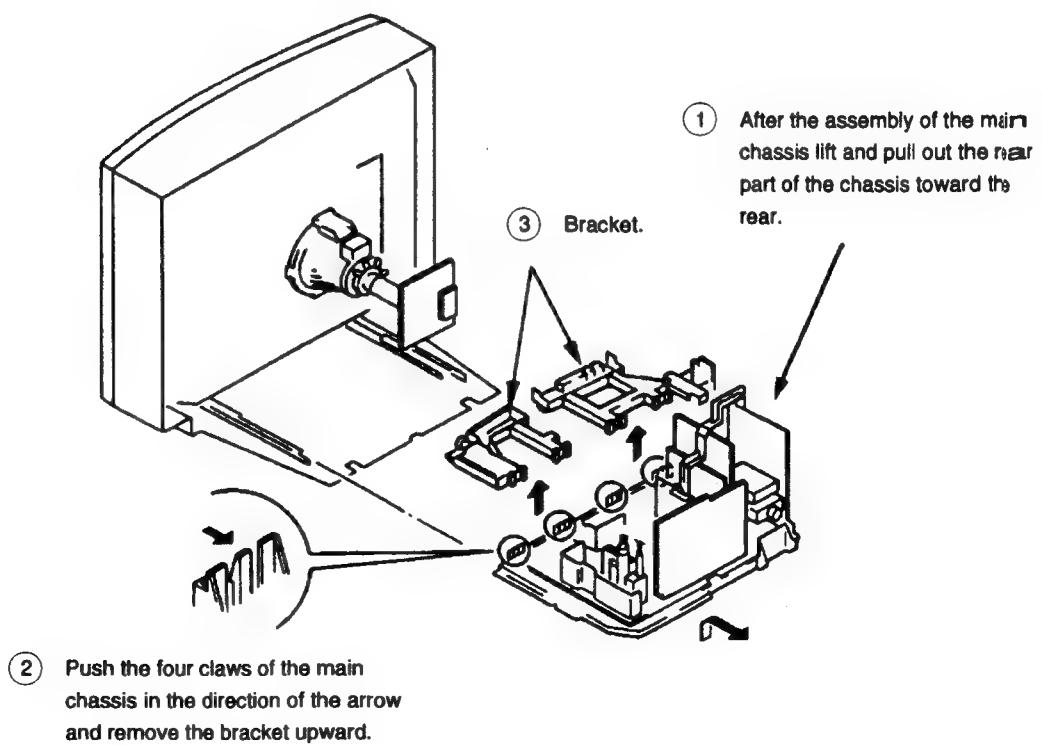


### 2-1-2. REAR COVER REMOVAL (29 inch)

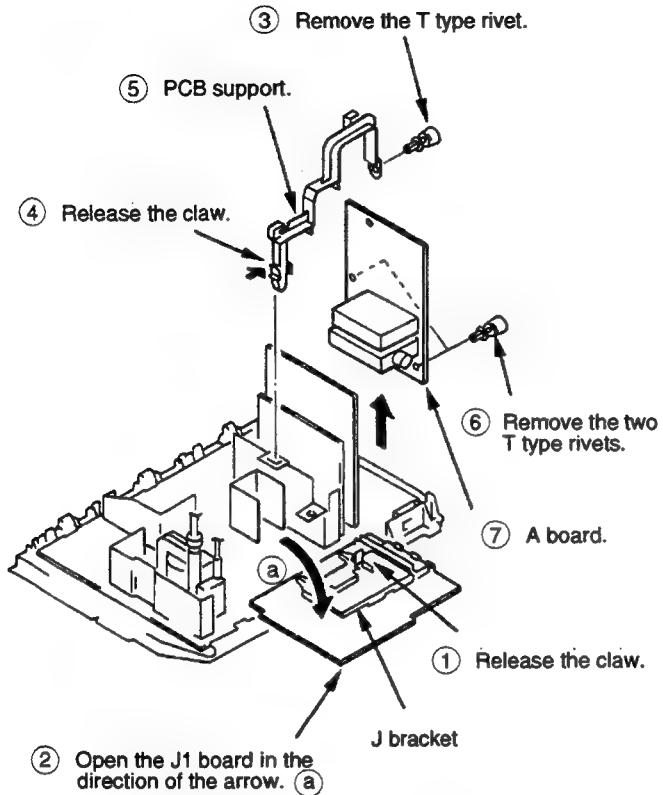


- 1) Pull the rear cover and turn the right speaker leads fixed by the pathlock on the chassis.
- 2) When attaching the rear cover for the speaker leads by pathlock.

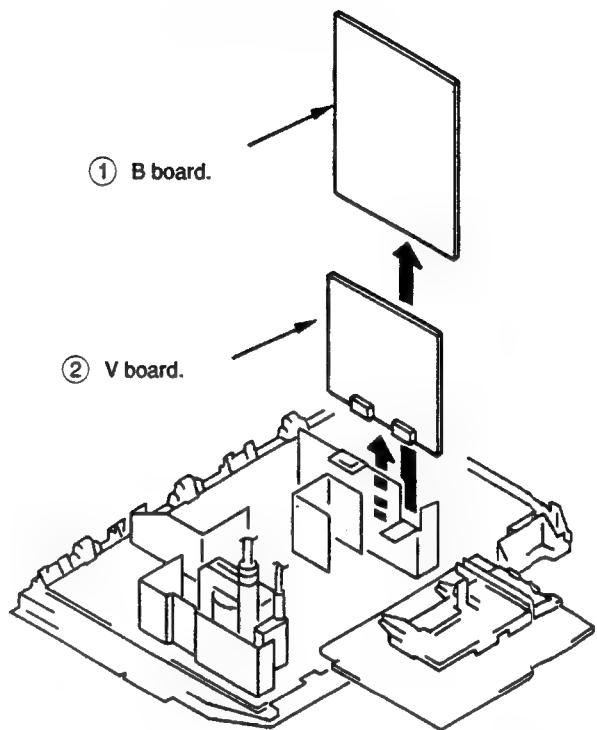
### 2-2. CHASSIS ASSEMBLY REMOVAL



### 2-3. A AND J1 BOARD REMOVAL



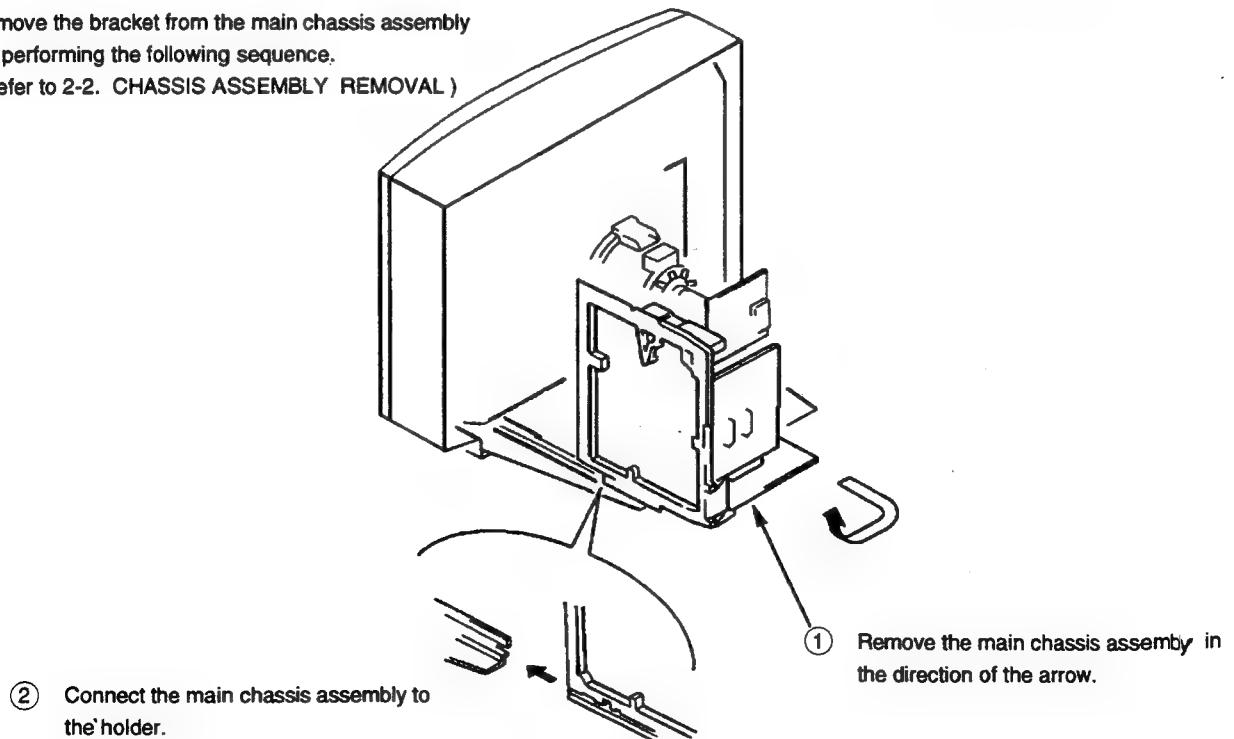
### 2-4. B AND V BOARD REMOVAL



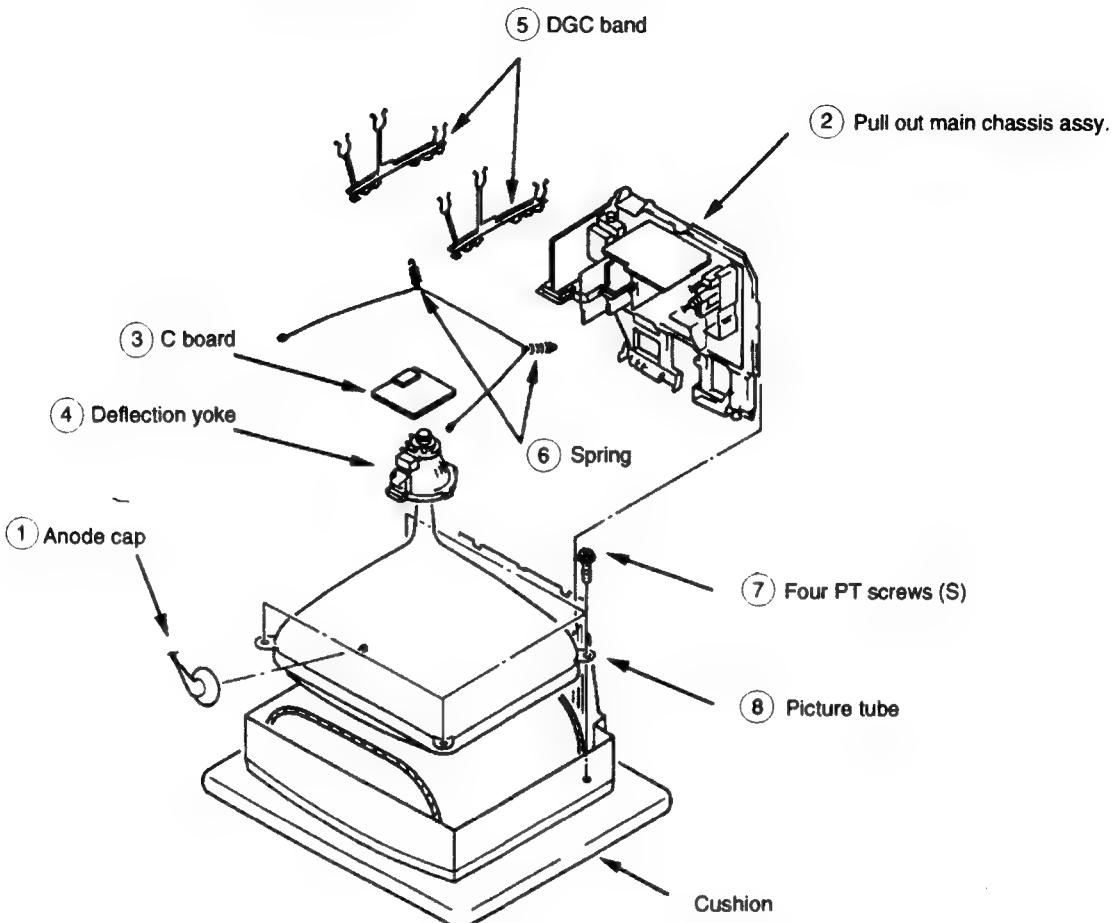
Note : 10 pin extension cable ( S-0945-001-0 )

### 2-5. SERVICE POSITION

- \* Remove the bracket from the main chassis assembly by performing the following sequence.  
( Refer to 2-2. CHASSIS ASSEMBLY REMOVAL )



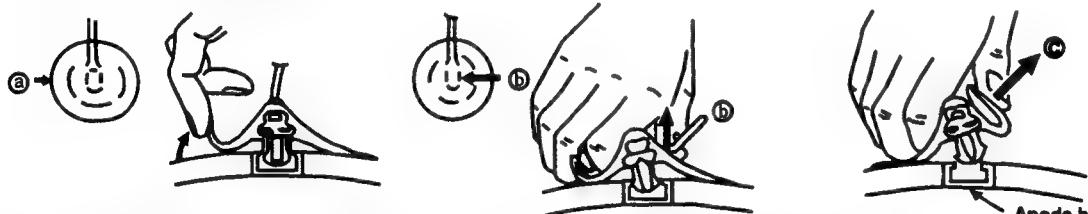
## 2-6-1. PICTURE TUBE REMOVAL (21 inch)



### • REMOVAL OF ANODE-CAP

**Note:** Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

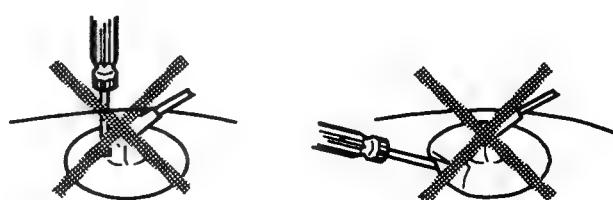
### • REMOVING PROCEDURES.



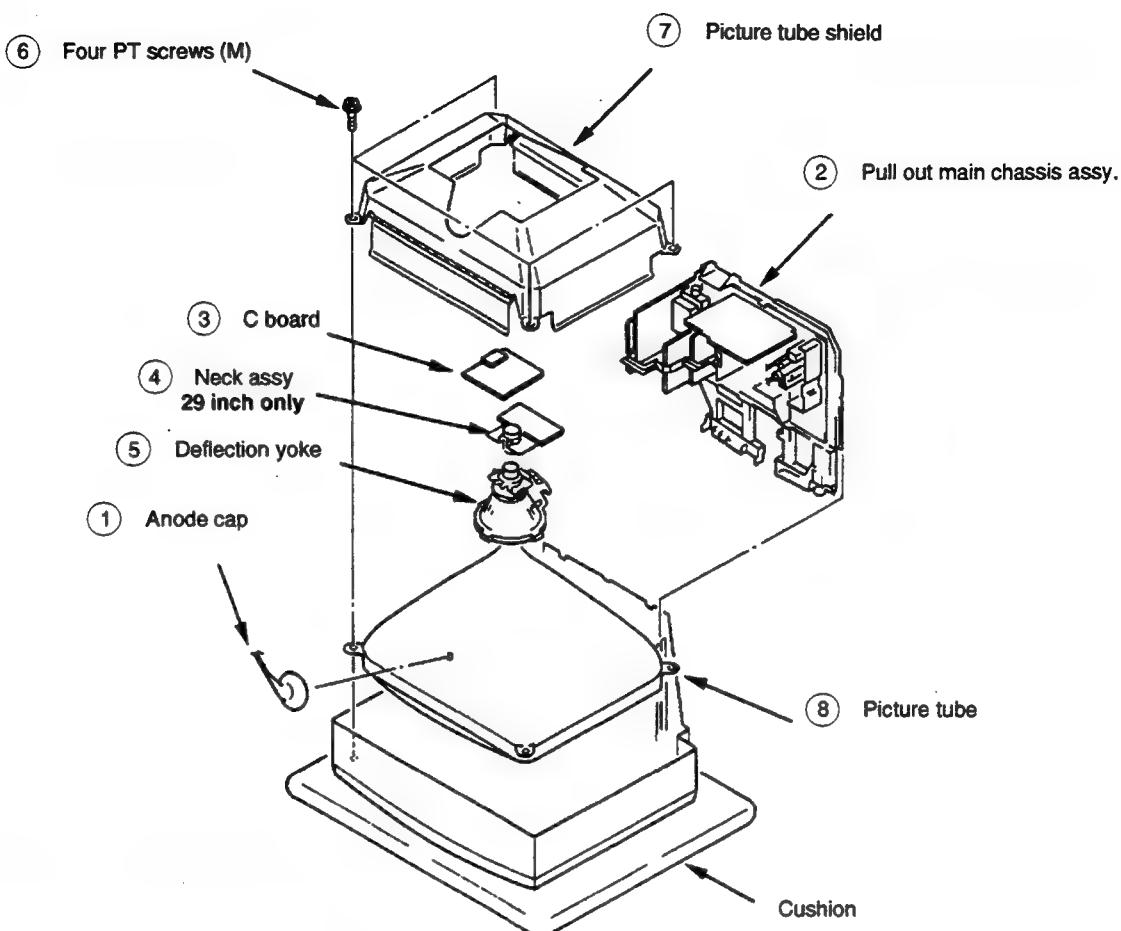
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !  
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly !  
The shatter-hook terminal will stick out or damage the rubber.



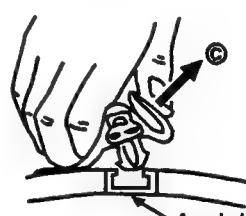
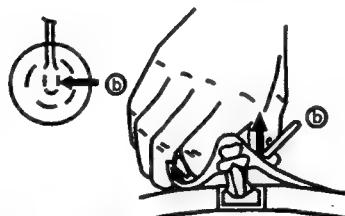
## 2-6-2. PICTURE TUBE REMOVAL (25 inch, 29 inch)



### • REMOVAL OF ANODE-CAP

**Note:** Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

### • REMOVING PROCEDURES.



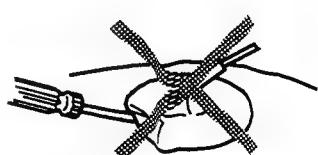
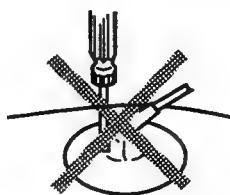
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)

- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !  
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !  
The shatter-hook terminal will stick out or damage the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:

Contrast ..... 80%  
 (or remote control normal)  
 Brightness ..... 50%

- Carry out the following adjustments in this order:
- Beam landing
  - Convergence
  - Focus
  - White balance

Note: Testing equipment required

- Color bar/pattern generator
- Degausser
- DC power supply
- Digital multimeter
- Oscilloscope

#### Preparation: ( 21 inch, 25 inch )

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

#### 3-1. BEAM LANDING

- Input the white signal with the pattern generator.  
 Contrast } normal  
 Brightness }
- Position neck ass'y as shown in Fig. 3-2.
- Set the pattern generator raster signal to red.
- Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.  
 (see Fig. 3-1 through 3-3.)
- Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to adjust it.  
 (See Fig. 3-4.)

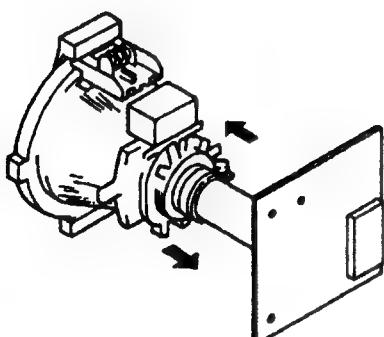


Fig. 3-1

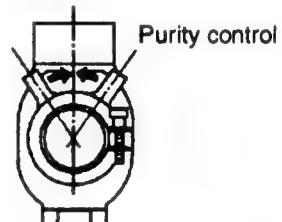


Fig. 3-2

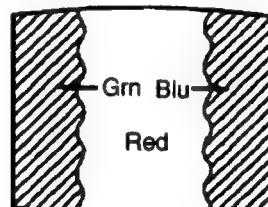


Fig. 3-3

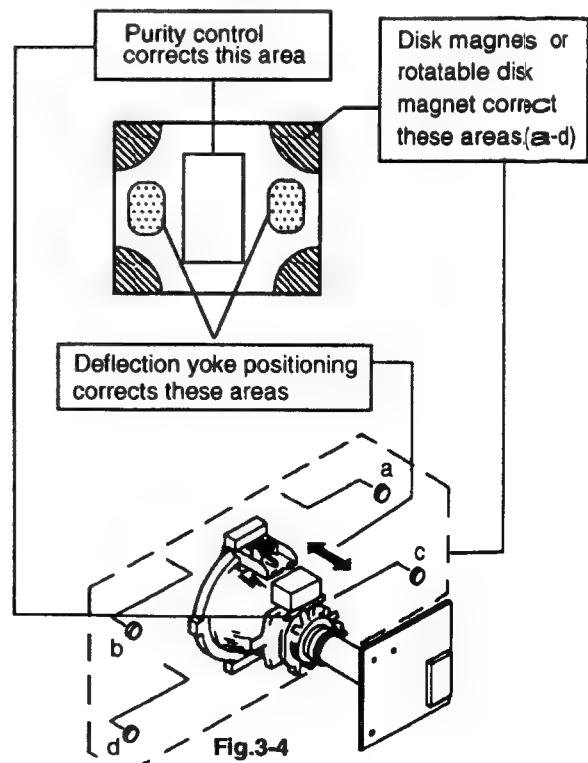


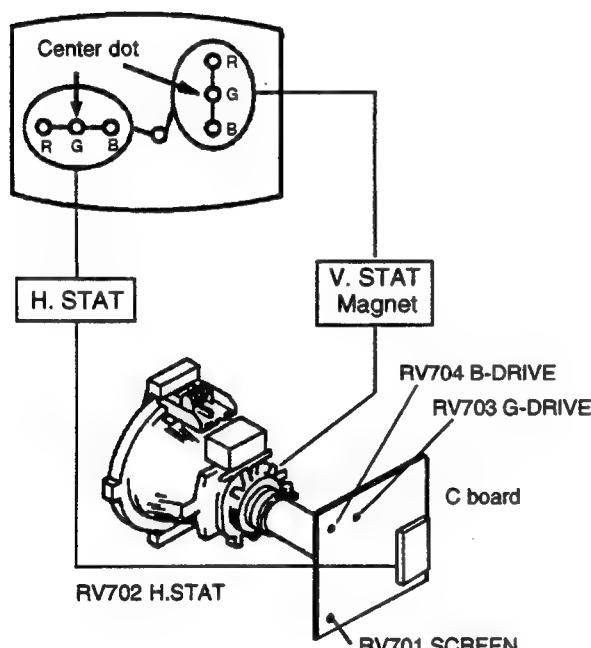
Fig. 3-4

### 3-2. CONVERGENCE

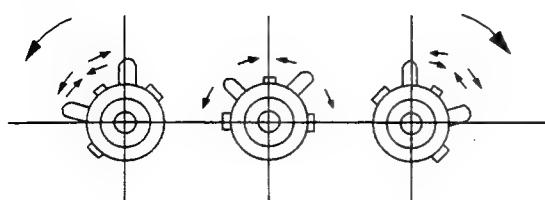
#### Preparation:

- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

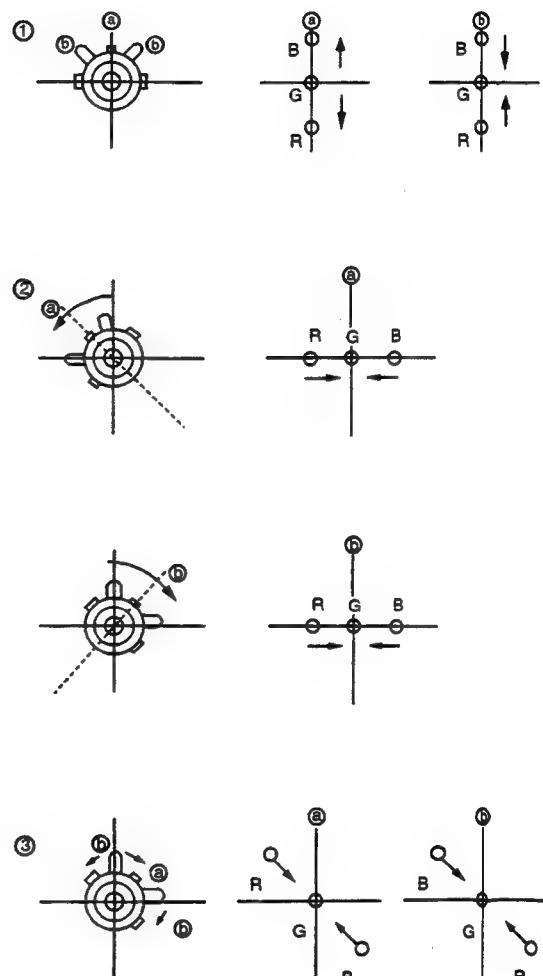
#### (1) Horizontal and Vertical Static Convergence.



1. Adjust H.STAT VR to converge red, green, and blue dots at the center of the screen. (Horizontal movement)
2. Adjust V.STAT magnet to converge red, green, and blue dots at the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge at the screen center with the H.STAT VR and V.STAT magnet as shown below. (In this case, HSTAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



- 4 If the V.STAT magnet is moved in the direction of the ④ and ⑤ arrows, the red, the green, and blue points move as shown below.



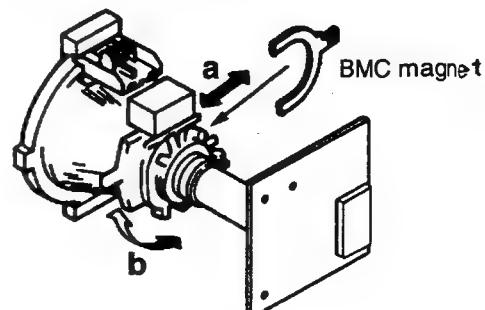
[ 21 inch only ]

If the red and blue dots do not converge with the green dots, perform the following steps.

Move BMC magnet (a) to correct insufficient H.STAT convergence.

Rotate BMC magnet (b) to correct insufficient V.STAT convergence.

In either case, repeat Beam Landing Adjustment.



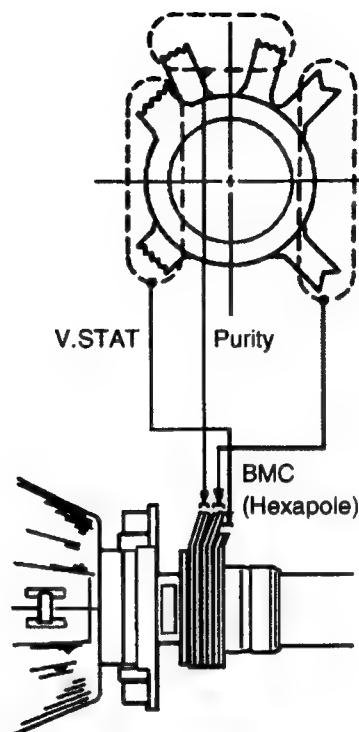
## (KV-25 Inch only)

## • Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen by moving the dots in the horizontal direction).

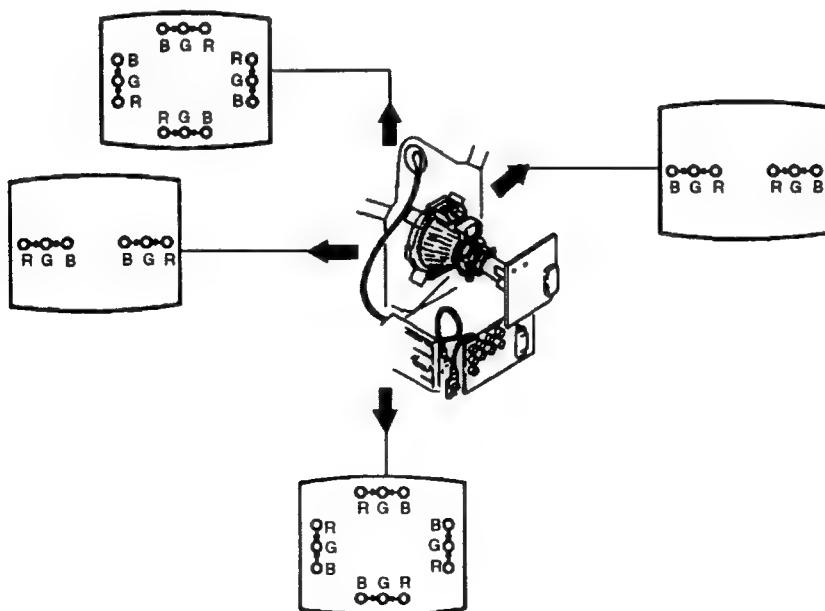


## (2) Dynamic convergence adjustment Preparation:

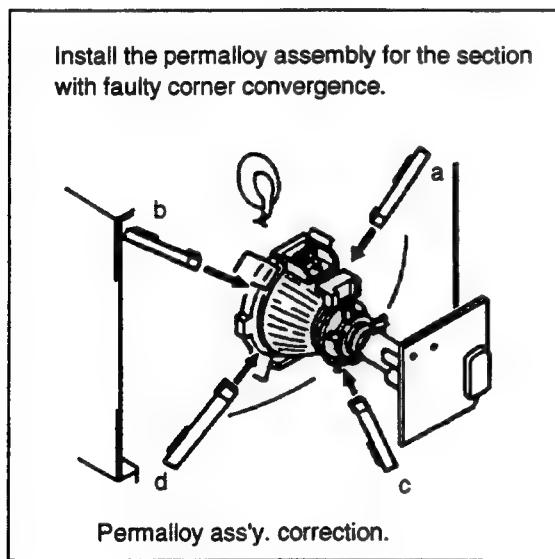
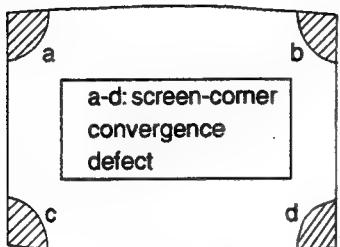
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.

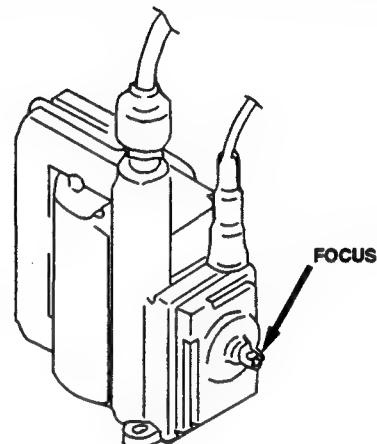


**(3) Screen corner convergence**



**3-3. FOCUS**

Adjust FOCUS so that the whole screen is in best focus.



**3-4. SCREEN (G2) and WHITE BALANCE**

**[ Screen G2 setting ]**

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170V DC to the cathodes of R,G and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before fly-back lines disappear.

**[ White balance adjustment ]**

1. Input an all-white signal from the pattern generator.
2. Set the picture BRIGHTNESS and COLOR controls to their normal levels.
3. Use RV704 (B DRIVE) and RV703 (G DRIVE) to adjust for best white balance.
4. Repeat steps 2 and 3 to obtain best results.

**Preparation: (29 Inch)**

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

**3-5. BEAM LANDING**

1. Input the white signal with the pattern generator.  
Contrast      } normal  
Brightness
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and green take up equally sized areas on each side.  
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

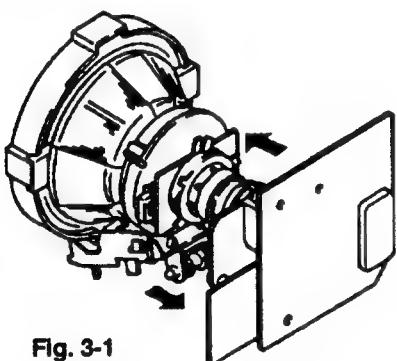


Fig. 3-1

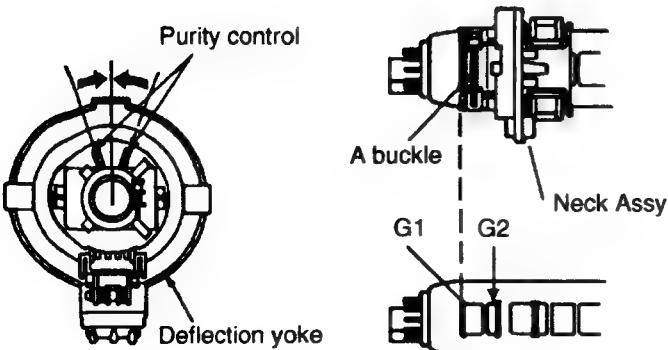


Fig. 3-2

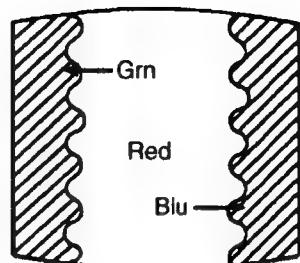


Fig. 3-3

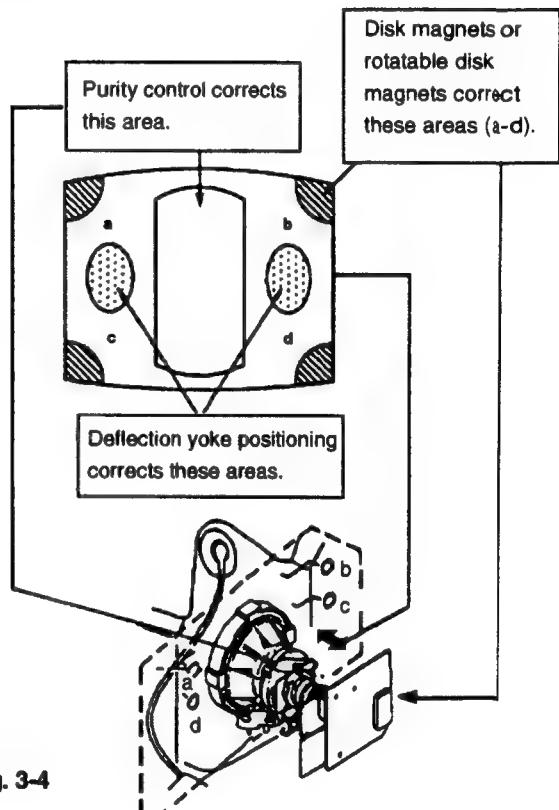


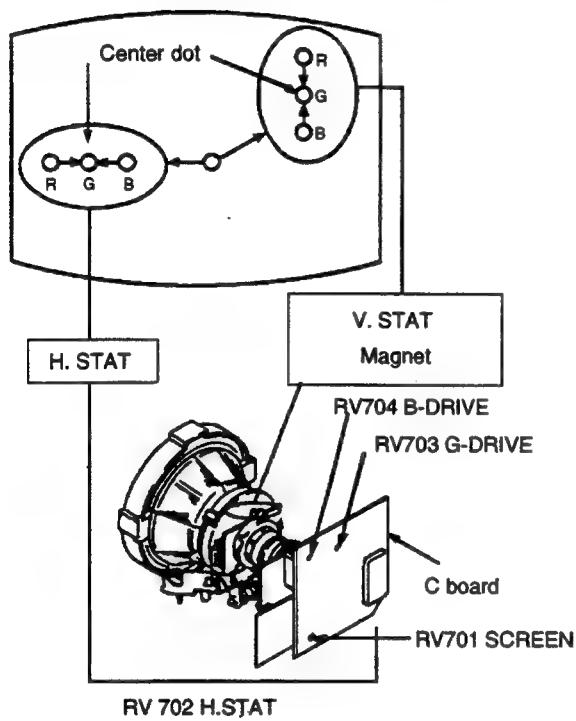
Fig. 3-4

### 3-6. CONVERGENCE

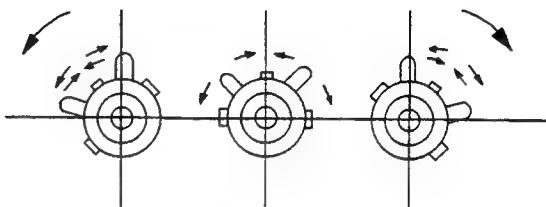
#### Preparation:

- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

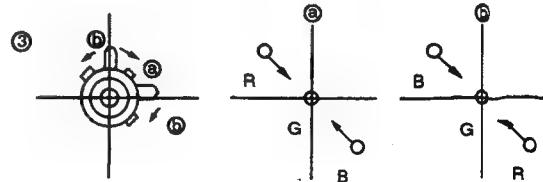
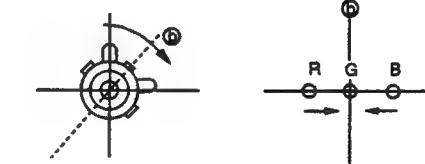
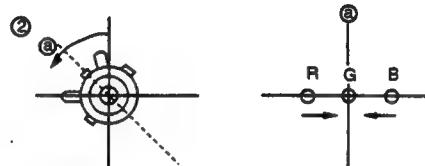
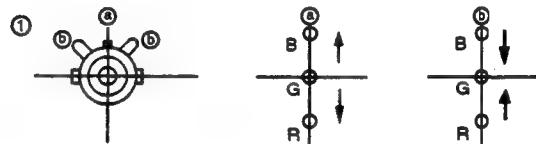
#### (1) Horizontal and Vertical Static Convergence.



- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

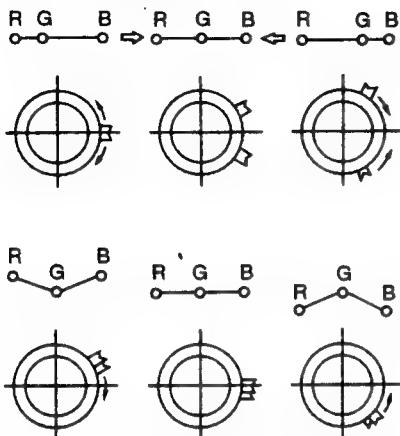


4. If the V.STAT magnet is moved in the direction of the ④ and ⑤ arrows, the red, green, and blue points move as shown below.



1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.  
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other.)

- Operation of BMC (Hexapole) Magnet



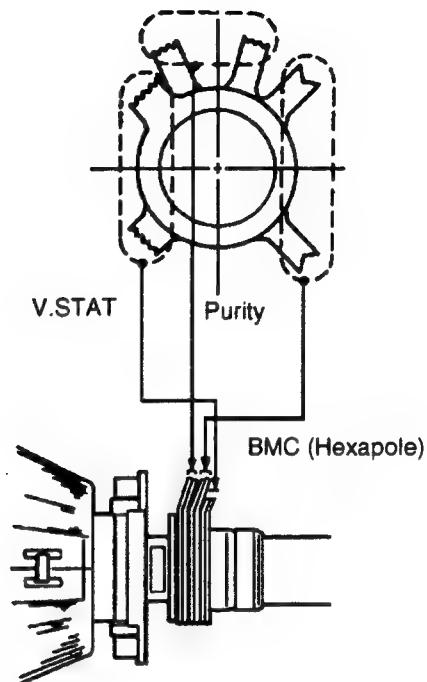
The respective dot positions resulting from moving each magnet

- interact, so be sure to perform adjustments while tracking.  
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

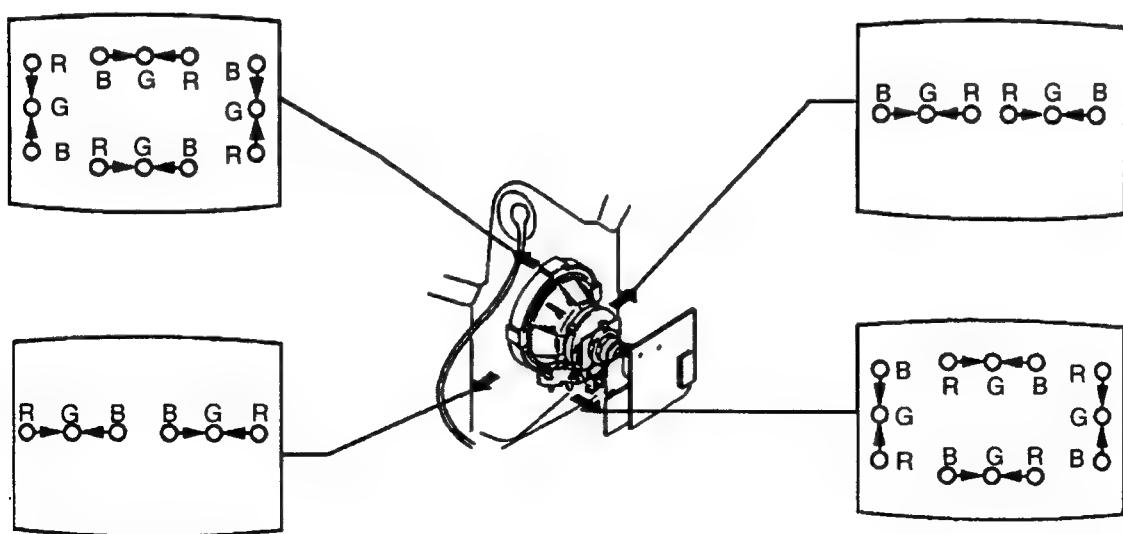
## (2) Dynamic convergence adjustment

### preparation :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.
  2. Remove the deflection yoke spacer.



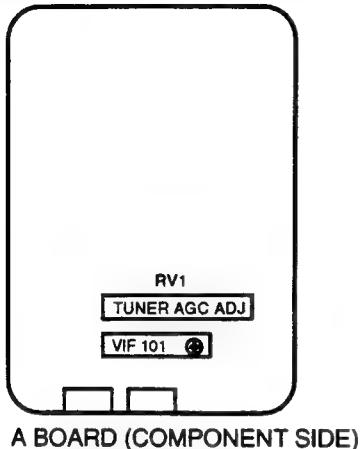
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



## SECTION 4

### CIRCUIT ADJUSTMENTS

#### 4-1. A BOARD ADJUSTMENT

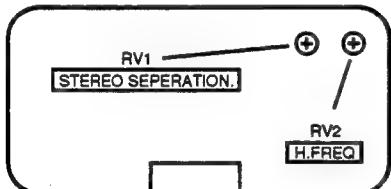


A BOARD (COMPONENT SIDE)

##### TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that the snow and crossmodulation just disappear from the picture.

#### IFG5.5S SIF



IFG5.5S SIF -component side-

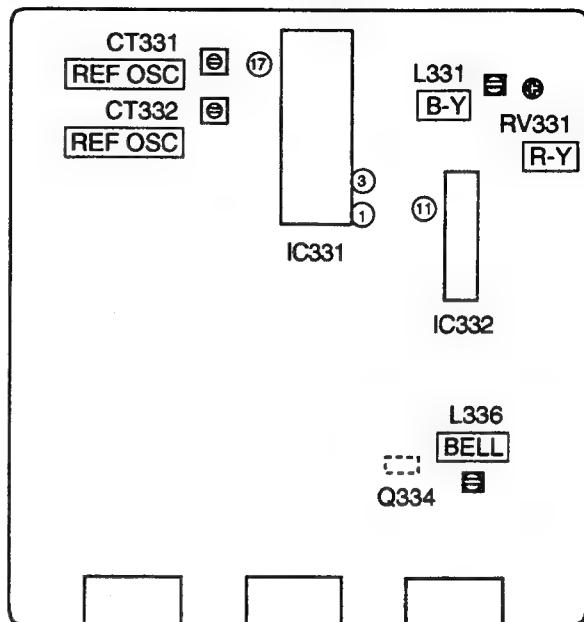
##### STEREO SEPARATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1kHz)
2. Check the stereo indicator.
3. Connect an oscilloscope to pin (8) (CH1) of CN1 through band pass filter of 1kHz.
4. Adjust RV1 so that 1kHz voltage goes down to the minimum.

##### H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper wire between pin (12) IC4 and GND.
2. Connect a frequency counter to pin (4) IFG5.5S (HP) of CN1 through a probe of 10:1.
3. Adjust RV2 (H.FREQ)  $15.625 \pm 50\text{Hz}$ .
4. After adjustment, remove the jumper wire.

#### 4-2. B BOARD ADJUSTMENTS



##### REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

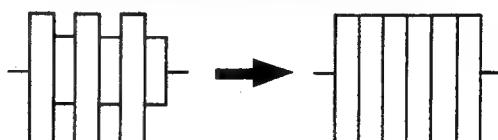
1. Input a PAL color bar signal.
2. Ground pin (17) of the IC331.
3. Adjust CT332 to obtain synchronization.

##### REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input a NTSC color bar signal.
2. Ground pin (17) of the IC331.
3. Adjust CT331 to obtain synchronization.
4. Remove the jumper grounding pin (17) of IC331.

##### BELL FILTER ADJUSTMENT (L336)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q334.
3. Adjust L336 so that the waveform is flat.

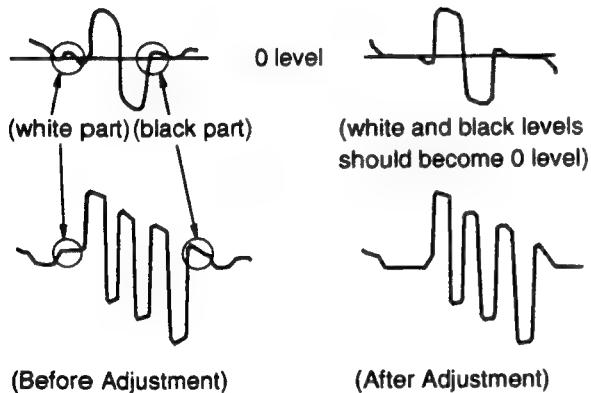


<Before Adjustment>

<After Adjustment>

### DISCRIMINATOR ADJUSTMENTS (RV331 and L331)

1. Input a Secam color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level.
4. Connect the oscilloscope to pin ③ of IC331.
5. Adjust L331 until the white and black sections of the waveform at pin ③ are at the 0 level.



### SECAM TRAP (L312)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

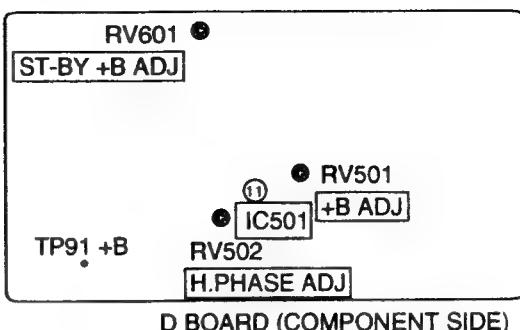


### NTSC TRAP (L308)

1. Input a NTSC (3.58) color bar signal.
2. Connect the oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.



### 4-3. D BOARD ADJUSTMENTS



#### +B ADJUSTMENT (RV501)

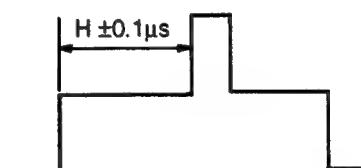
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain  $135 \pm 0.2V$ .

#### ST-BY +B ADJUSTMENT (RV601)

1. Put the system into  $\diamond$  standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain  $135 \pm 3V$ .
4. Take the system out of  $\diamond$  standby mode (remote commander).

#### H.PHASE ADJUSTMENT (RV502)

1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC501.
5. Rotate RV502 to adjust to H



Standard of H.PHASE

Model Size	H
21"	5.6μs
25"	5.1μs
29"	5.5μs

#### 4-4. J1 BOARD ADJUSTMENTS

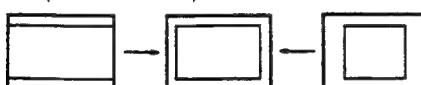
RV1506	RV1504
RV1508	RV1501 PIN COR
RV1502	RV1502 PIN PHASE
RV1503	RV1503 PIN AMP
RV1501	RV1504 H.SIZE
RV1509	RV1505 CORNER COR
RV1507	RV1506 V.CENT
	RV1507 V.SIZE
	RV1508 H.CENT
	RV1509 V.ANGLE

J1 BOARD (COMPONENT SIDE)

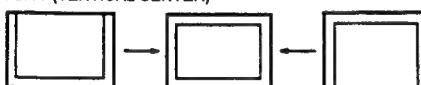
RV1508  
H.CENT (HORIZONTAL CENTER)



RV1504  
H.SIZE (HORIZONTAL SIZE)



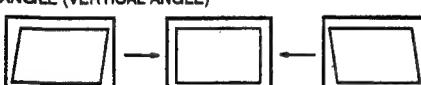
RV1506  
V.CENT (VERTICAL CENTER)



RV1507  
V.SIZE (VERTICAL SIZE)



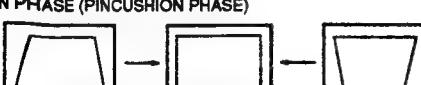
RV1509  
V.ANGLE (VERTICAL ANGLE)



RV1503  
PIN AMP (PINCUSHION AMPLIFIER)



RV1502  
PIN PHASE (PINCUSHION PHASE)



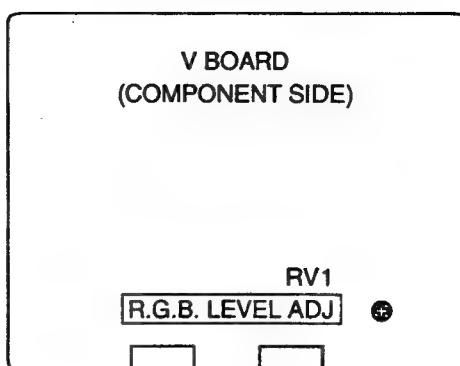
RV1501  
PIN. COR (PINCUSHION CORRECT)



RV1505  
CORNER COR (CORNER CORRECT)



#### 4-5. V BOARD ADJUSTMENT



##### RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

## 4-6. SECONDARY ADJUSTMENTS

### SUB BRIGHTNESS ADJUSTMENT

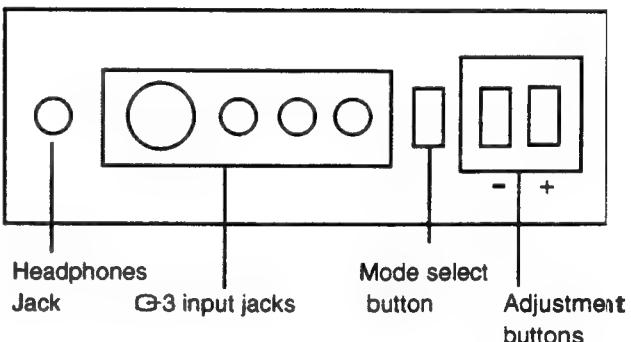
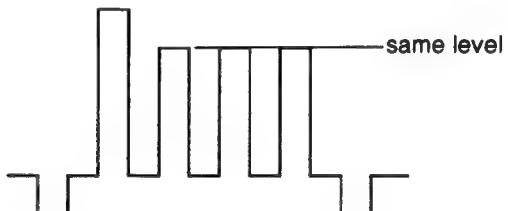
1. Set the system to receive a test pattern.
2. Press  $\rightarrow\leftarrow$  on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the  $\odot$  contrast setting.
6. Adjust the  $\star$  brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the  $\diamond$  (store) button of the remote commander. (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press  $\rightarrow\leftarrow$  on the remote commander to put the system into normal mode.
- 3-5. Set the  $\oplus$  color to its normal state.
6. Steps are the same as above.
7. Since 20 IRE is nearly blue, adjust the  $\star$  brightness control so that the blue barely glows.
8. Same as step 7 above.
9. Press  $\rightarrow\leftarrow$  on the remote commander to put the system into normal mode.

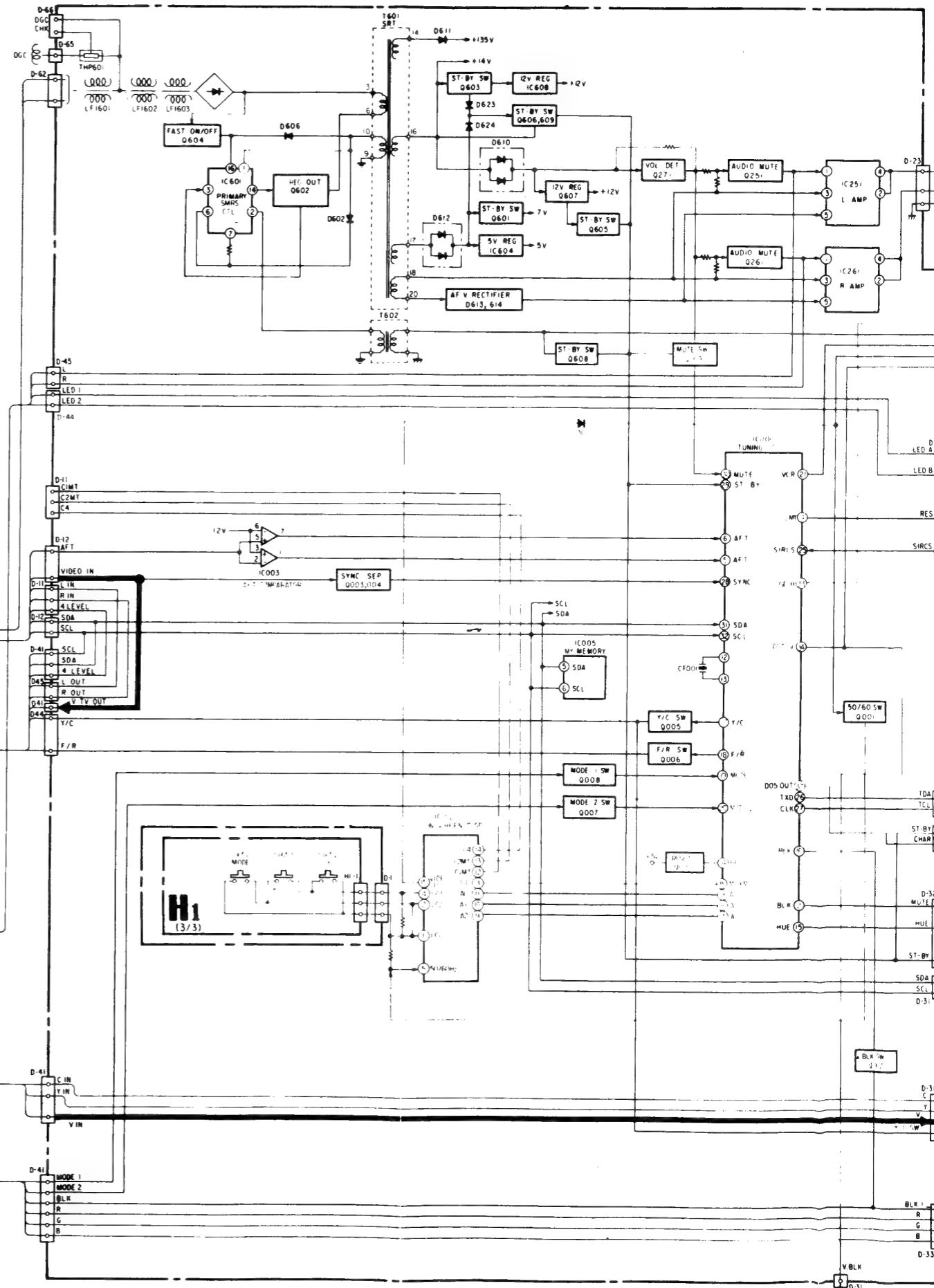
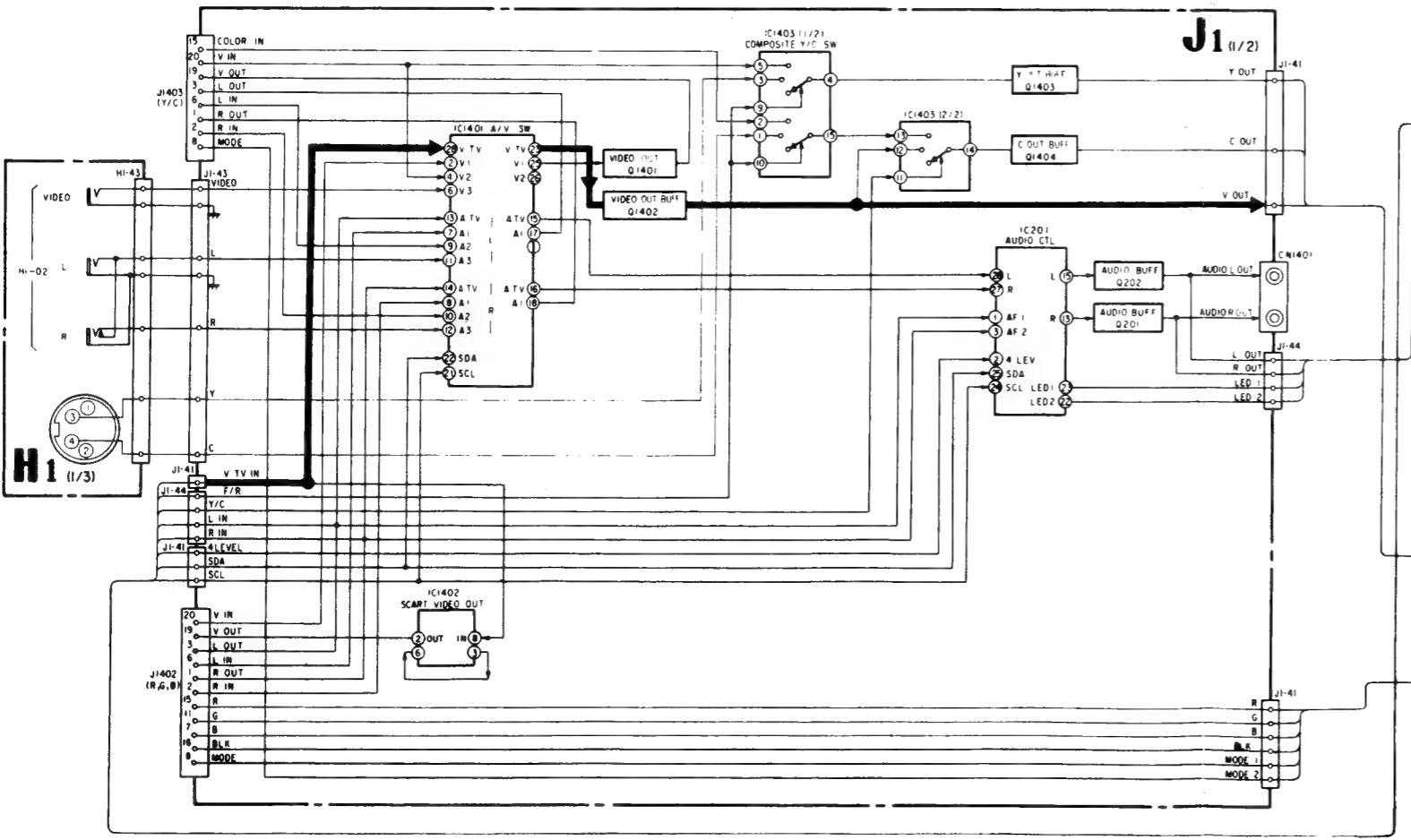
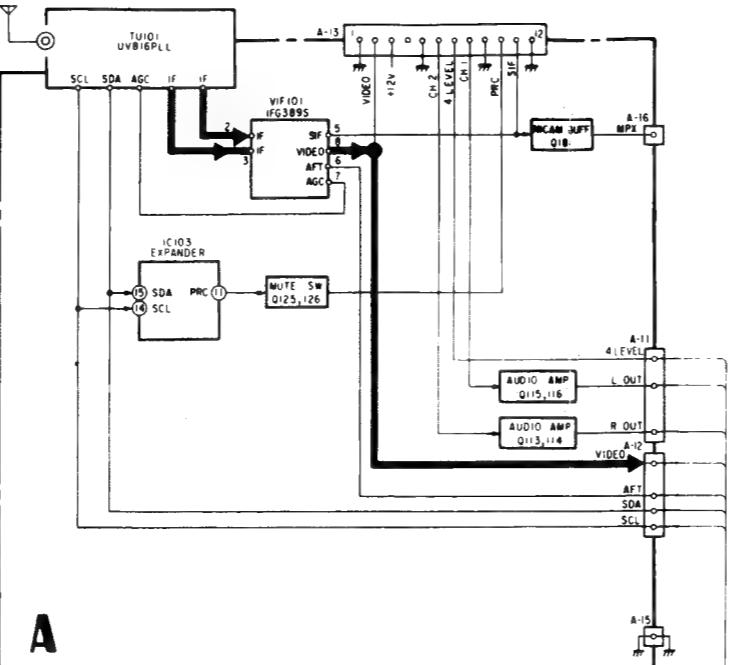
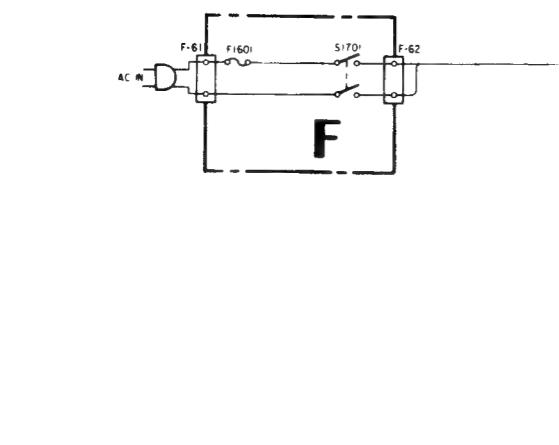
### SUB COLOR ADJUSTMENT

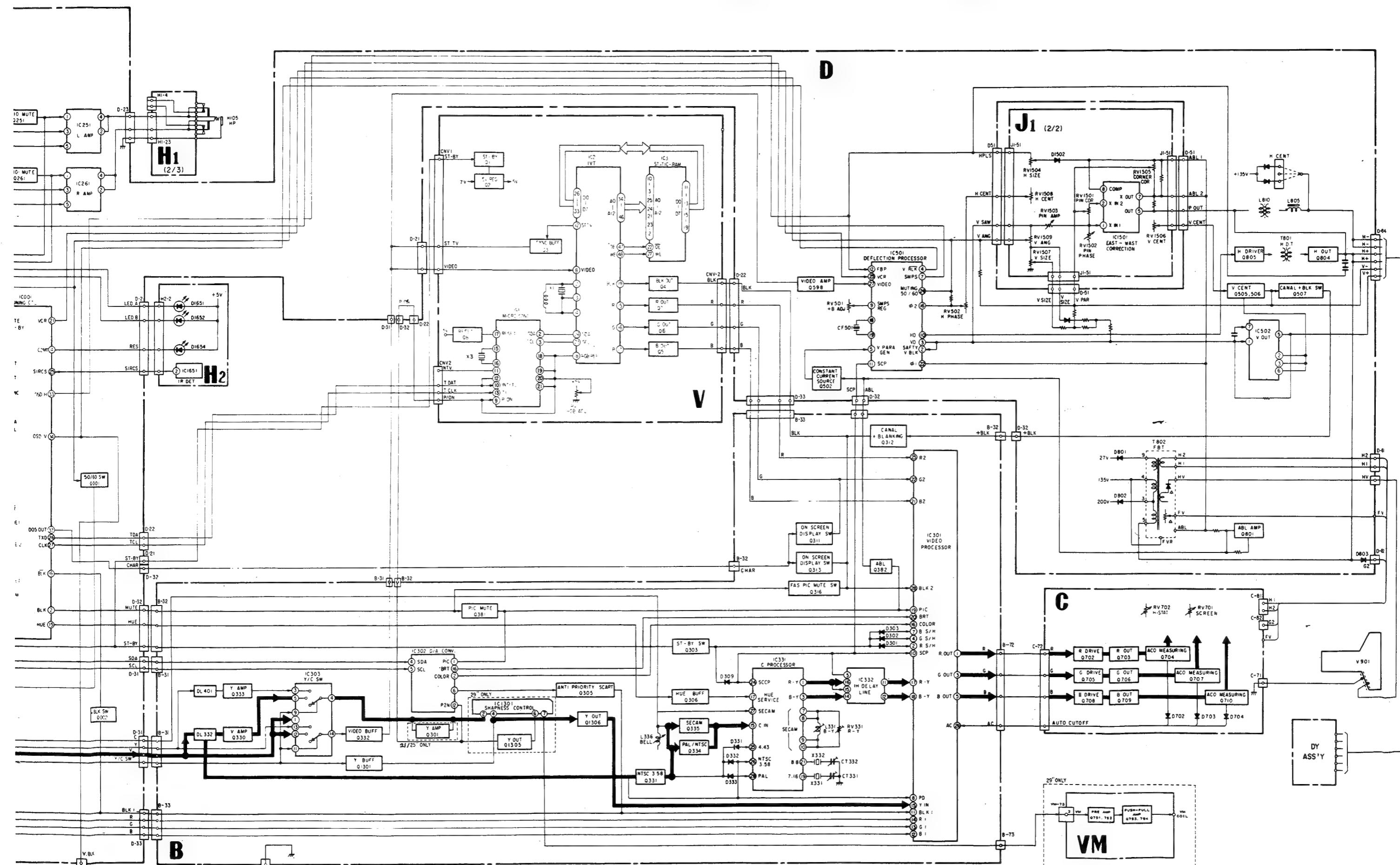
1. Set the system to receive color bars.
2. Press  $\rightarrow\leftarrow$  on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the  $\diamond$  (store) button of the remote commander. (SUB mode is released)



SECTION 5  
DIAGRAMS

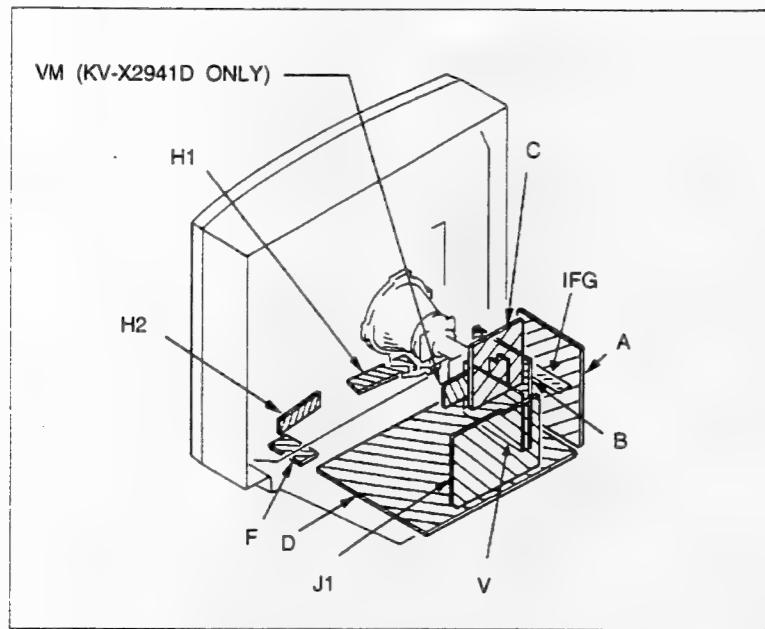
## 5-1. BLOCK DIAGRAM



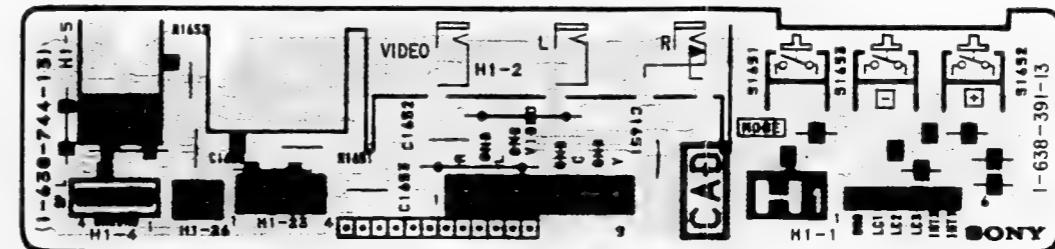


**H1** [CONTROL SW,  
AV INPUT,  
HEADPHONE]    **H2** [SIRCS RECEIVER,  
INDICATOR]    **F** [AC IN POWER SW]

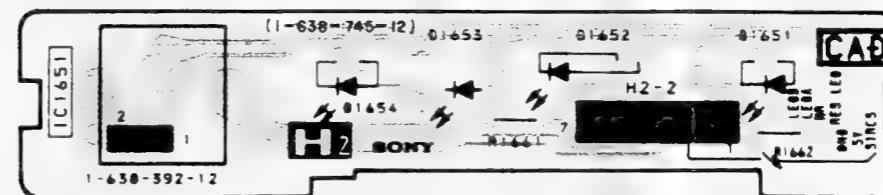
## 5-2. CIRCUIT BOARD LOCATION



— H1 Board —



— H2 Board —



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS - Conductor Side -

### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  
 $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{K}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm  
Rating electrical power  $\frac{1}{4}$  W

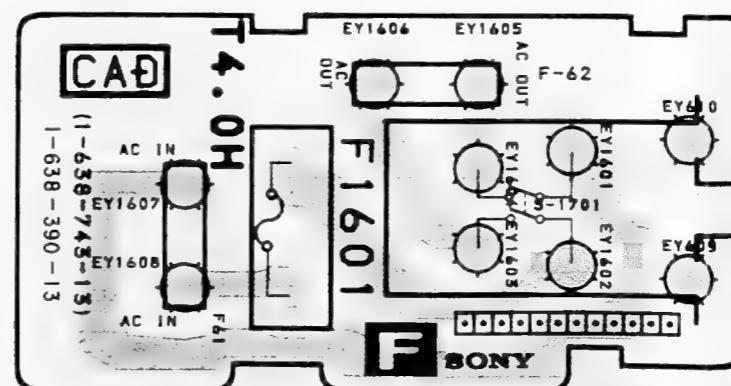
- nonflammable resistor.
- internal component.
- panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- earth - ground.
- earth - chassis.
- no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information		
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: $\times$	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with  $10\text{M}\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circle numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

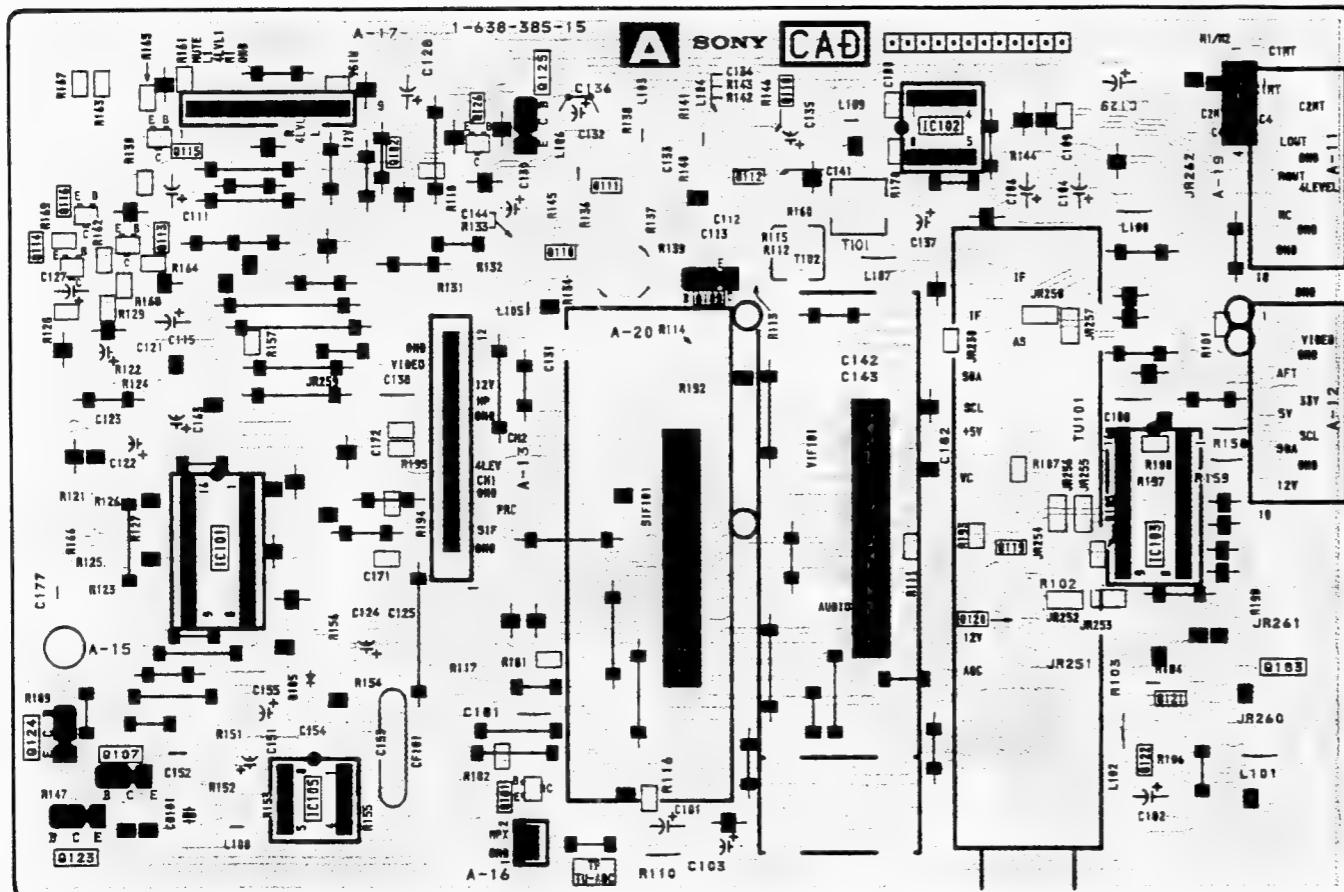
— F Board —



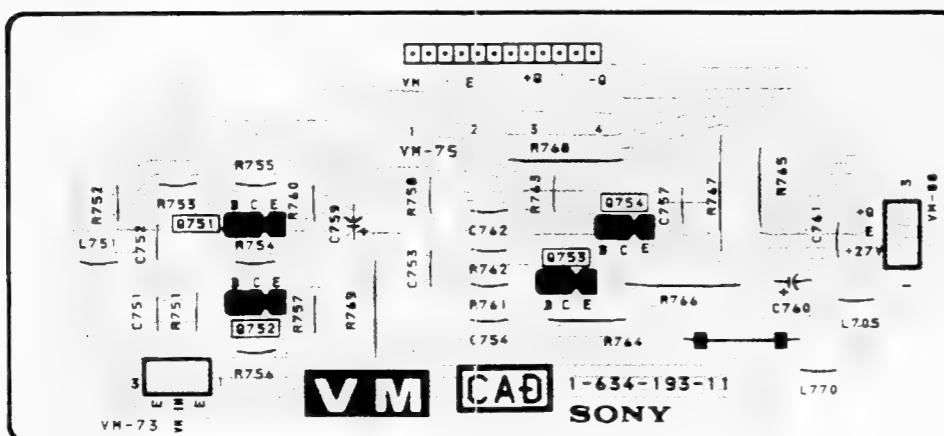
**A** [TUNER, SIF, VIF] **VM** [VM AMP]

J1 [AUDIO CONTROL, AV INPUT  
Y/C INPUT, SCART VIDEO OUT  
EAST-WEST CORRECTION

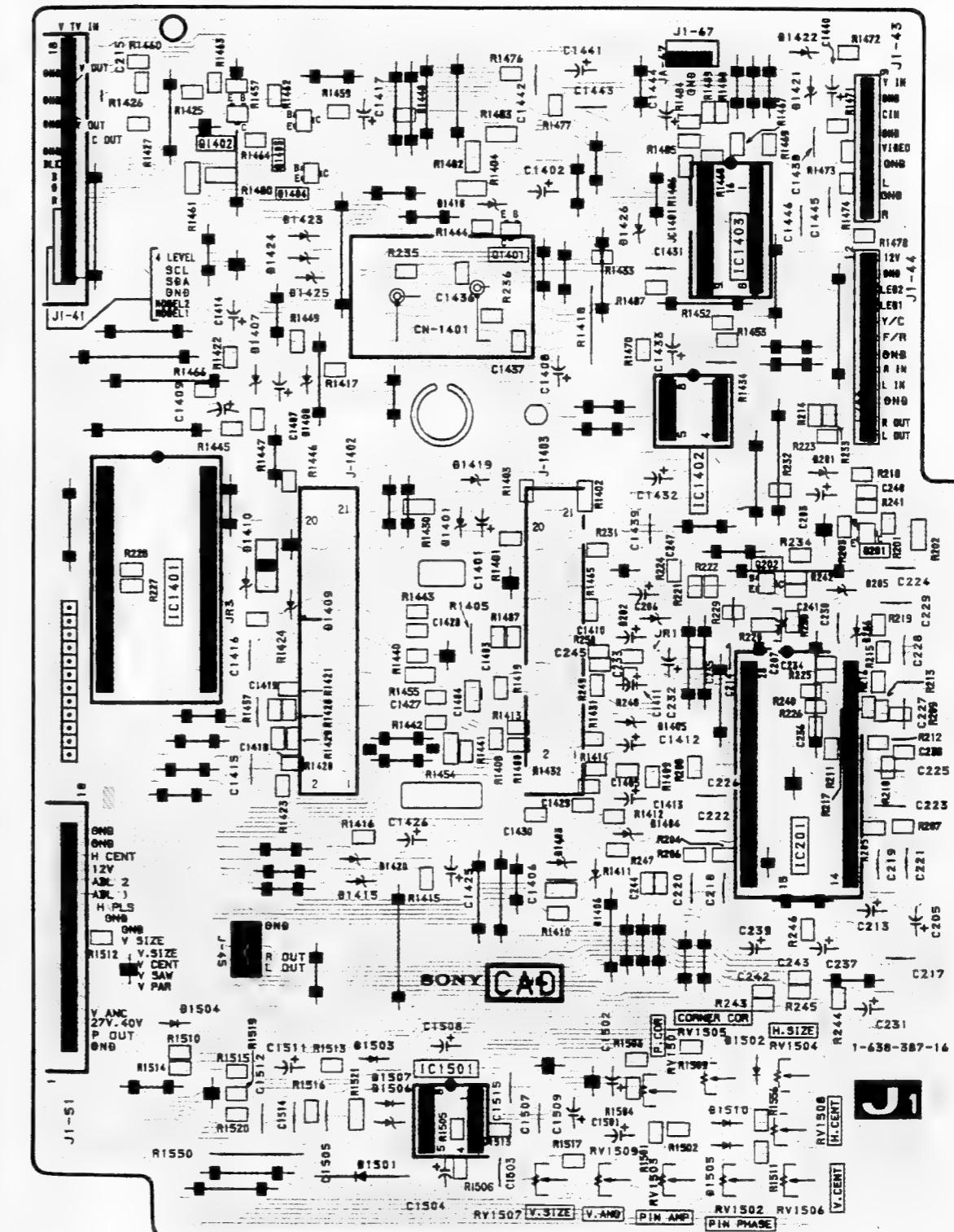
- A Board -

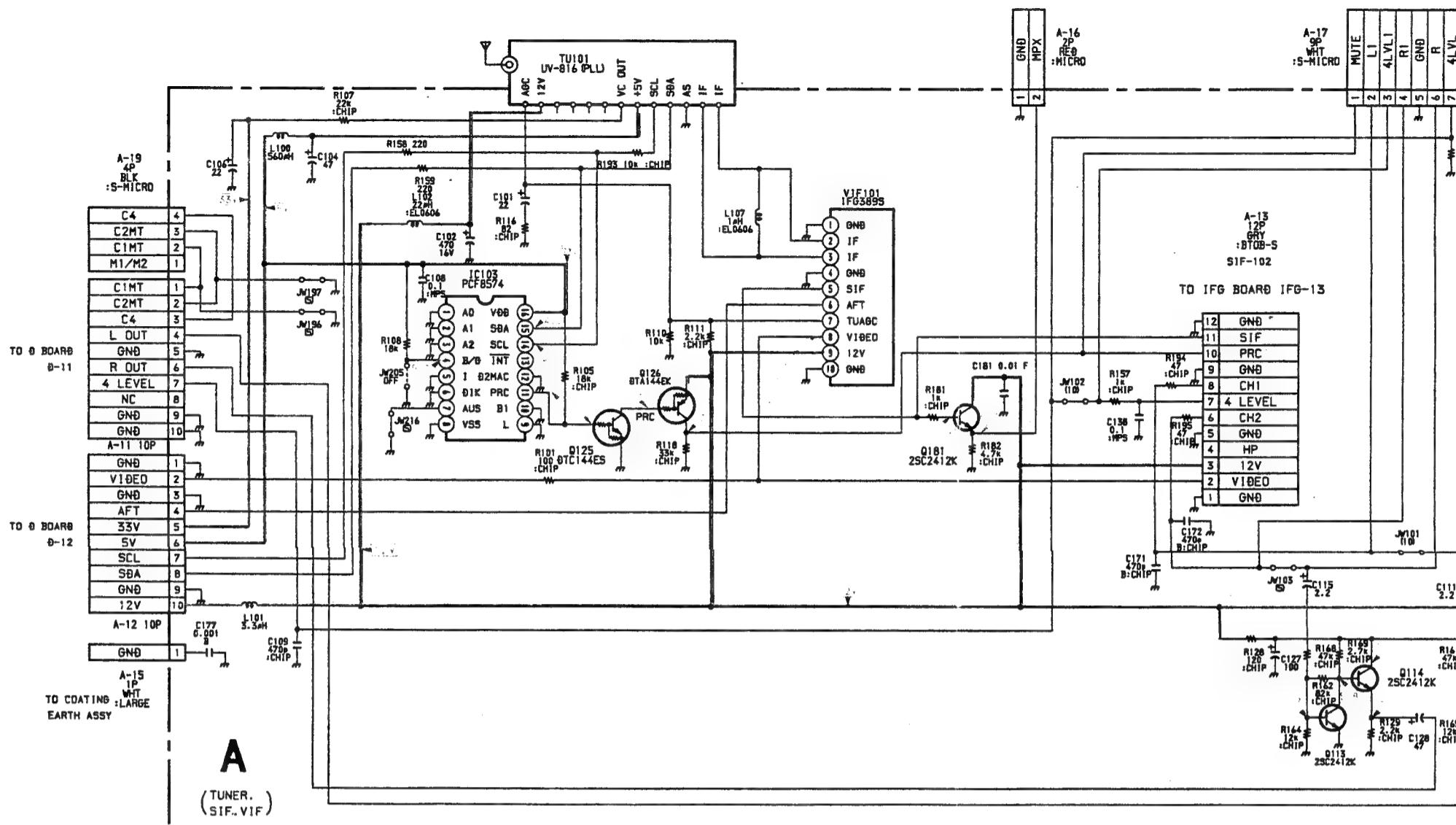


**- VM Board - ( 29 inch only )**

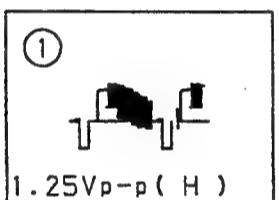


— J1 Board —



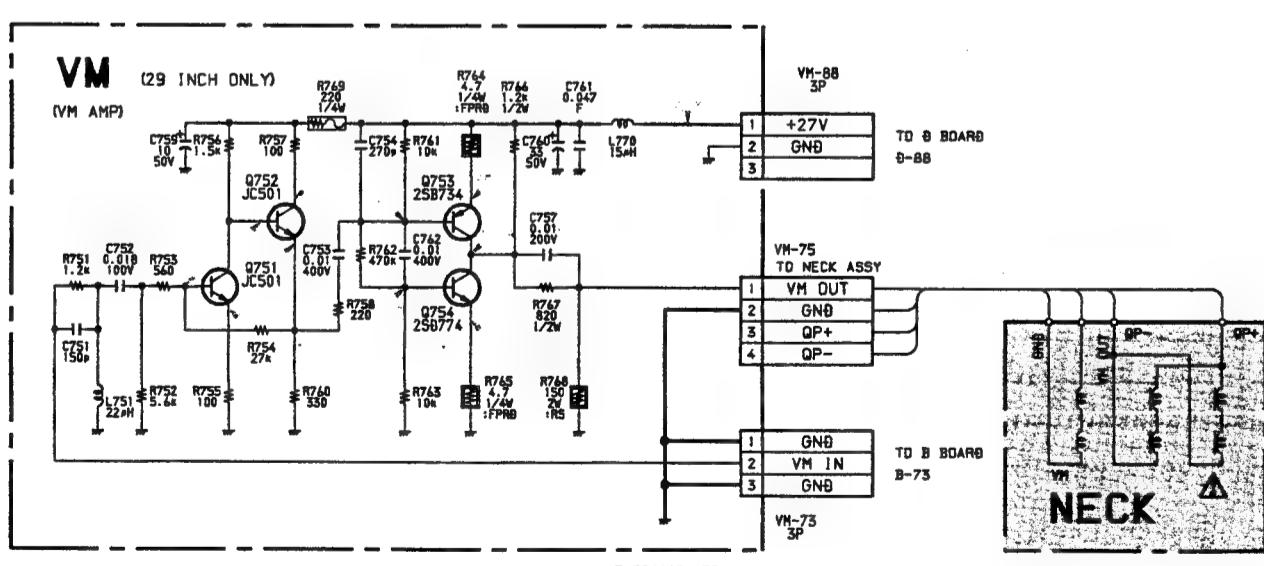
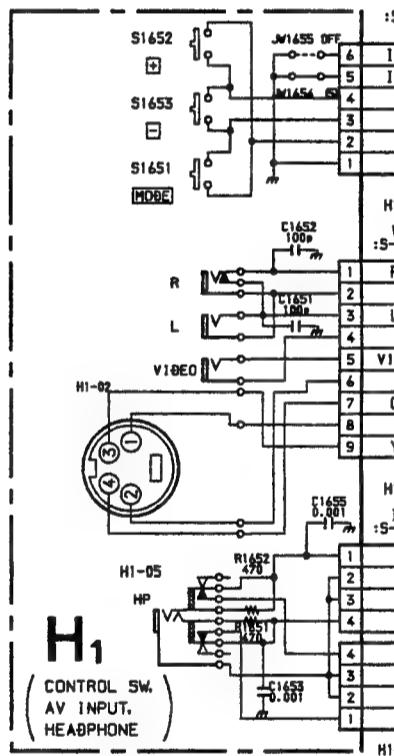
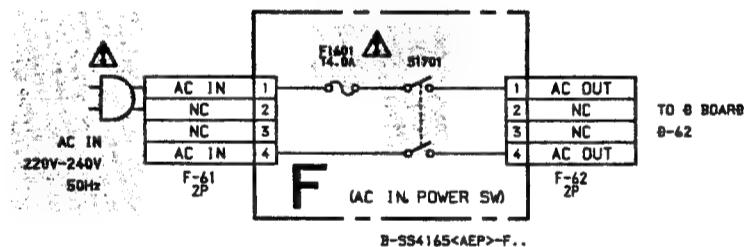


Waveform A Board



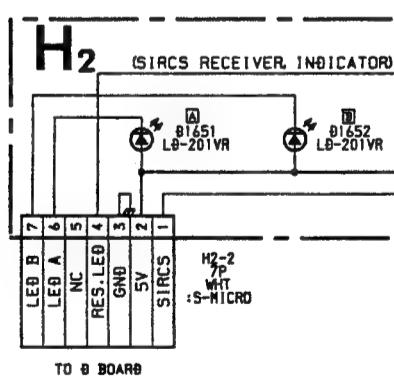
A Board

IC103	EXPANDER
Q113	AUDIO AMP
Q114	AUDIO AMP
Q115	AUDIO AMP
Q116	AUDIO AMP
Q125	MUTE SW
Q126	MUTE SW
Q181	BUFFER



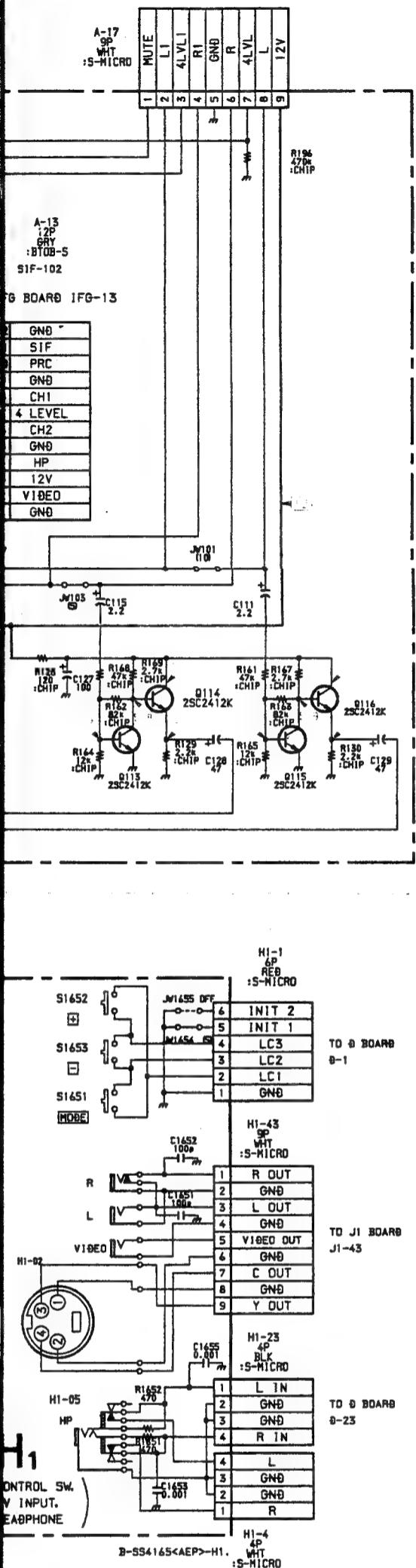
VM Board (29 inch)

Q751	REF-AMP
Q752	REF-AMP
Q753	PUSH-PULL OUT
Q754	PUSH-PULL OUT



H2 Board

IC1651	INFRARED RECEIV
D1651	AUDIO CHANNEL A
D1652	AUDIO CHANNEL B
D1654	RESET



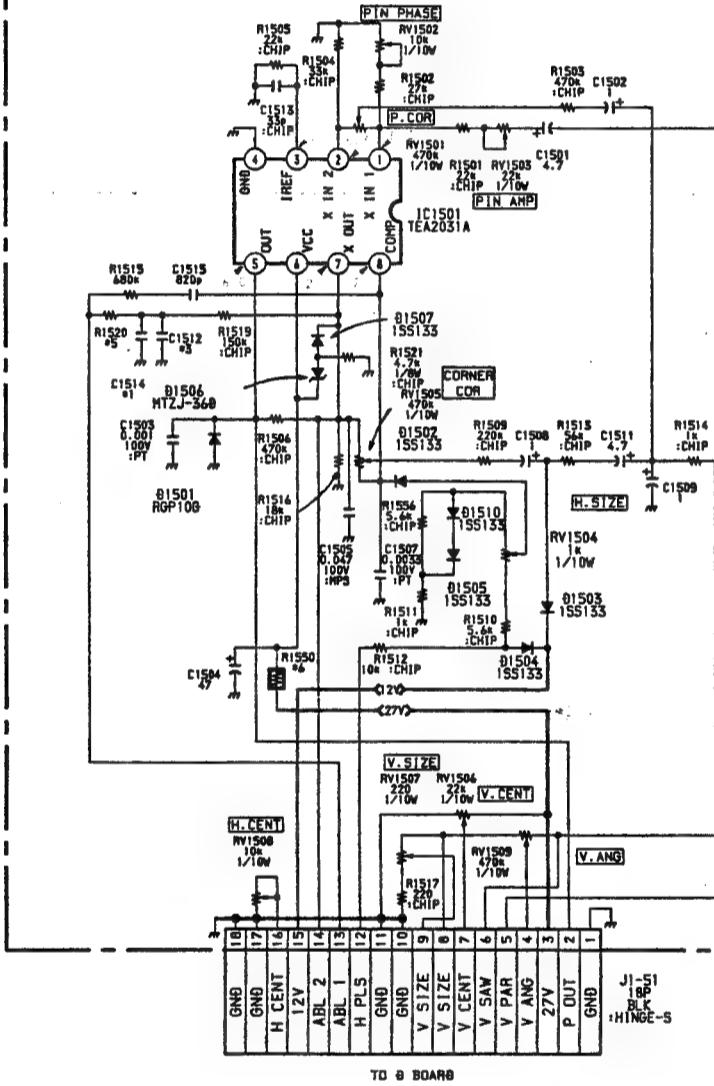
J1

AUDIO CONTROL  
AV INPUT, Y/C INPUT.  
SCART VIDEO OUT.  
EAST-WEST CORRECTION

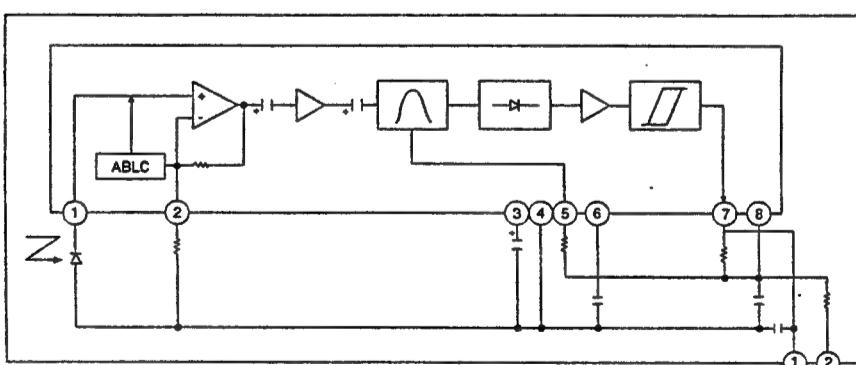
J1 BOARD

	21 inch	25 inch	29 inch
*1 C1514	0.022/250V	0.022/250V	_____
*2 C1515	820P	820P	_____
*3 C1512	0.0068/400V	0.0068/400V	_____
*4 R1515	680K	680K	_____
*5 R1520	470K	470K	390K
*6 R1550	15MM JW	15MM JW	1 1W

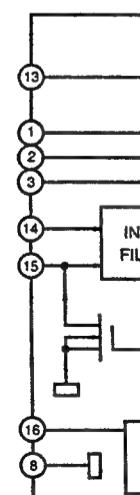
**— NOT MOUNTED**

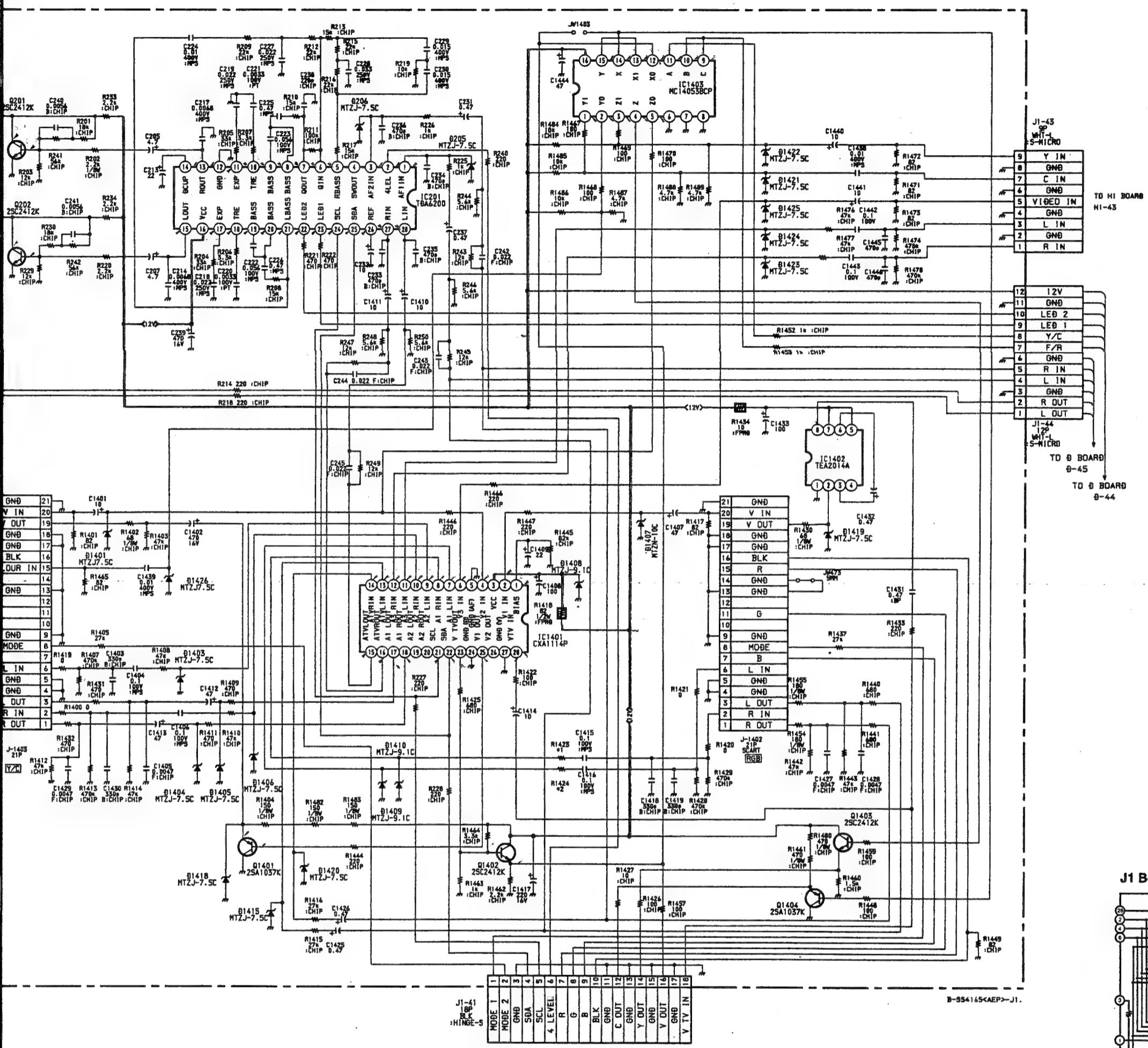
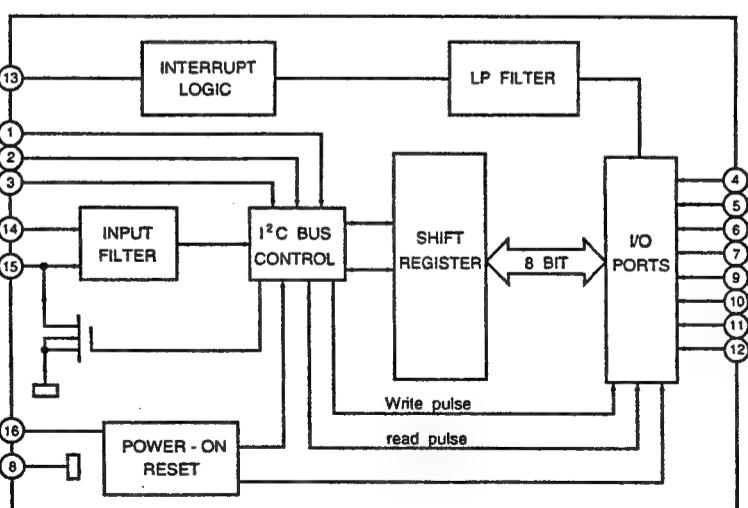
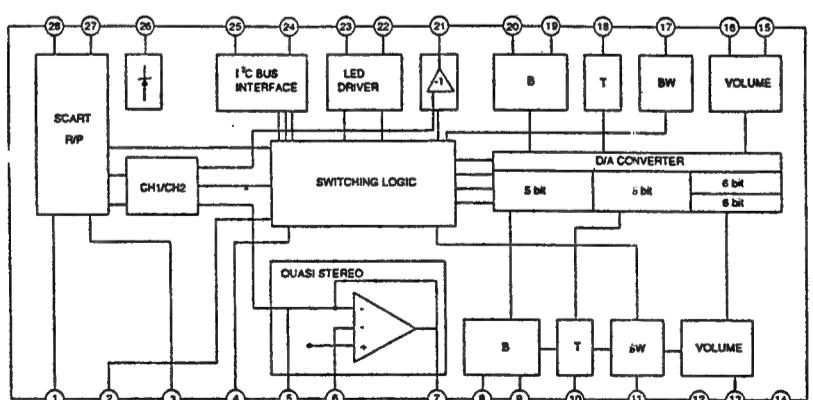


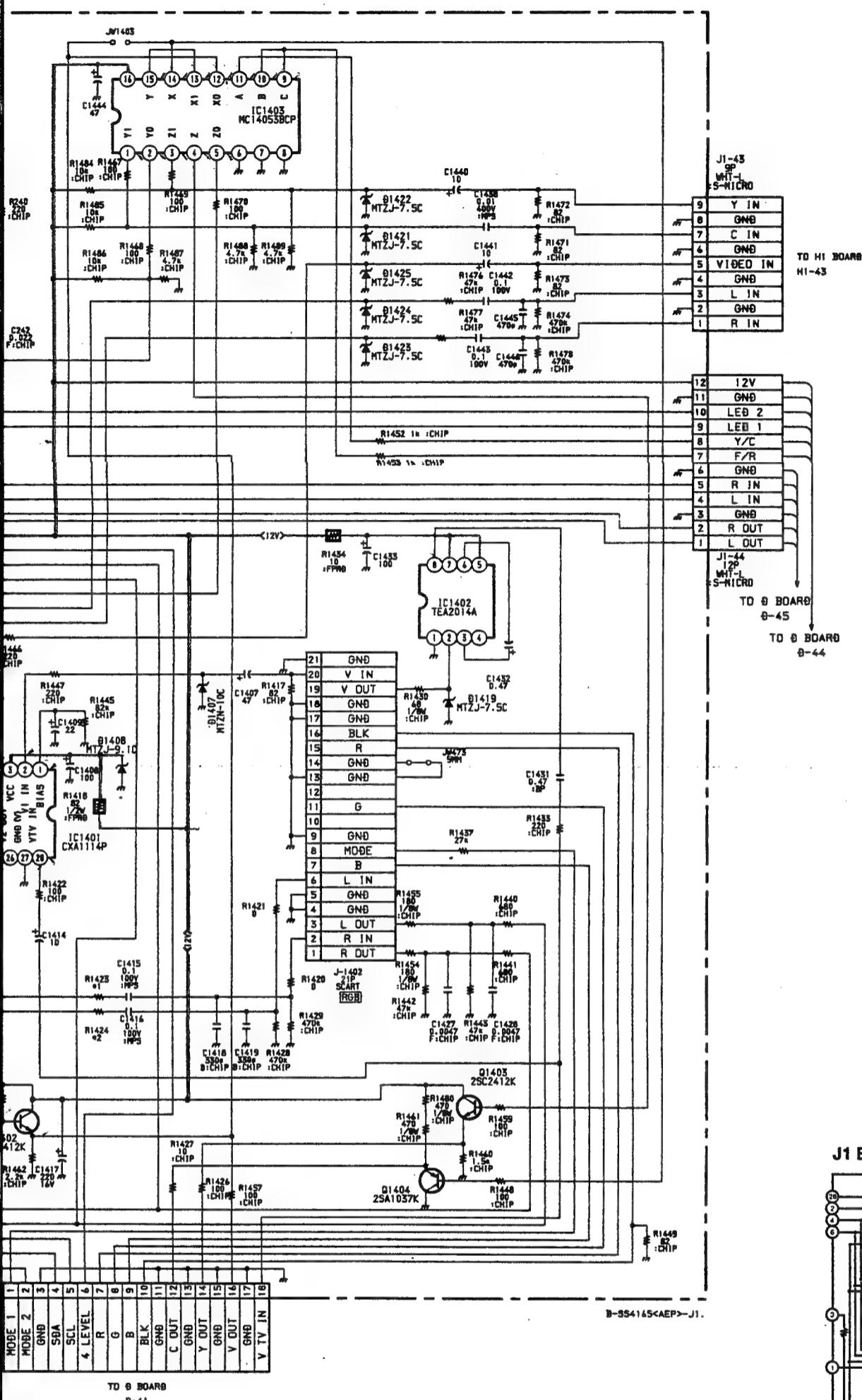
H2 Board IC1651 SBX1610-11



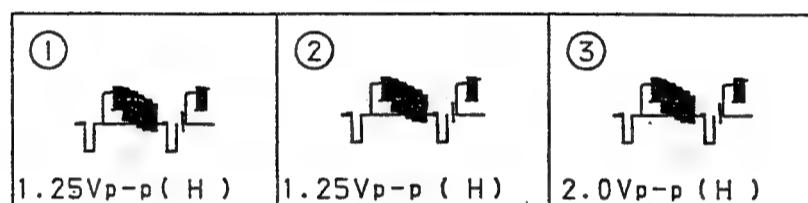
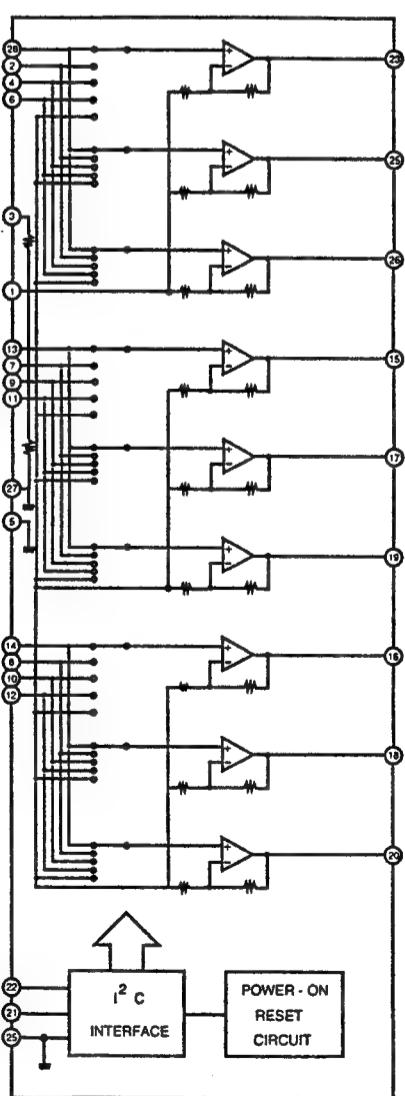
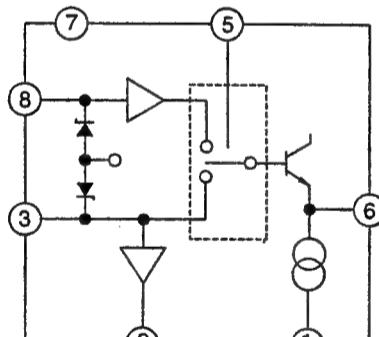
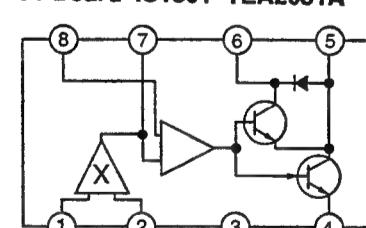
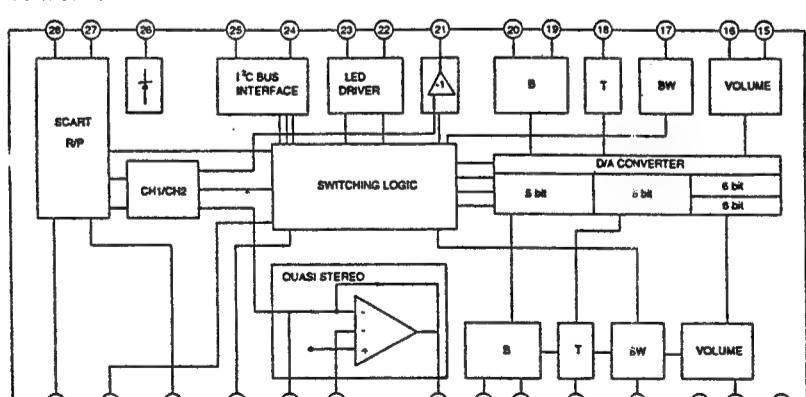
A Board



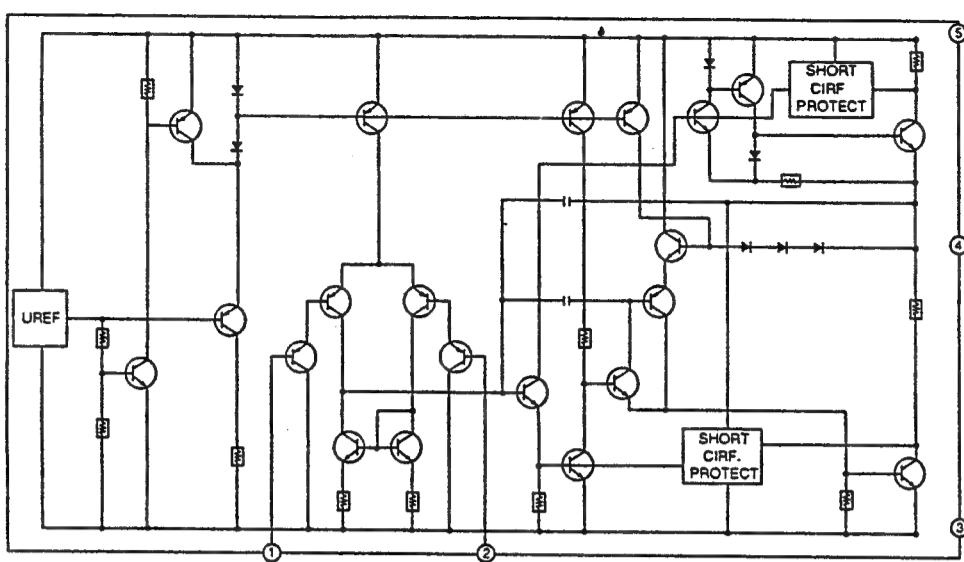
**A Board IC103 PCF8574****J1 Board IC201 TDA6200**

**J1 Board**

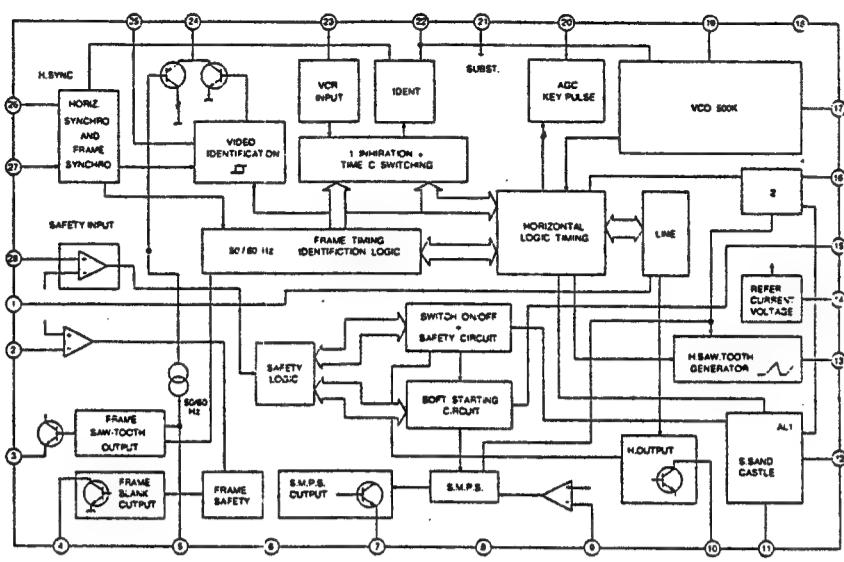
IC201	AUDIO CONTROL
IC1401	AV SW
IC1402	SCART VIDEO OUT
IC1403	COMPOSITE Y/C SW
IC1501	EAST-WEST CORRECTION
Q201	R AUDIO BUFFER
Q202	L AUDIO BUFFER
Q1401	VIDEO OUT
Q1402	VIDEO OUT BUFFER
Q1403	Y OUT BUFFER
Q1404	C OUT BUFFER
D201	PROTECT
D202	PROTECT
D205	PROTECT
D206	PROTECT
D1401	PROTECT
D1403	PROTECT
D1404	PROTECT
D1405	PROTECT
D1406	PROTECT
D1407	PROTECT
D1408	REGULATOR
D1409	PROTECT
D1410	PROTECT
D1415	PROTECT
D1418	PROTECT
D1419	PROTECT
D1420	PROTECT
D1421	PROTECT
D1422	PROTECT
D1423	PROTECT
D1424	PROTECT
D1425	PROTECT
D1426	PROTECT
D1501	PROTECT
D1502	CLIPPING H SIZE
D1503	CLIPPING V PARABOLA
D1504	CLIPPING H PULSE
D1505	REGULATOR
D1506	PROTECT
D1507	PROTECT
D1510	REGULATOR

**Waveforms J1 Board****J1 Board IC1401 CXA1114P****J1 Board IC1402 TEA2014A****J1 Board IC1501 TEA2031A****J1 Board IC201 TDA6200**

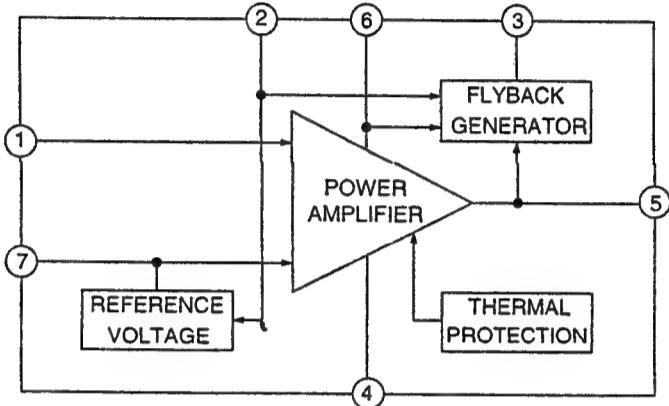
D Board IC251/IC261 TDA2050



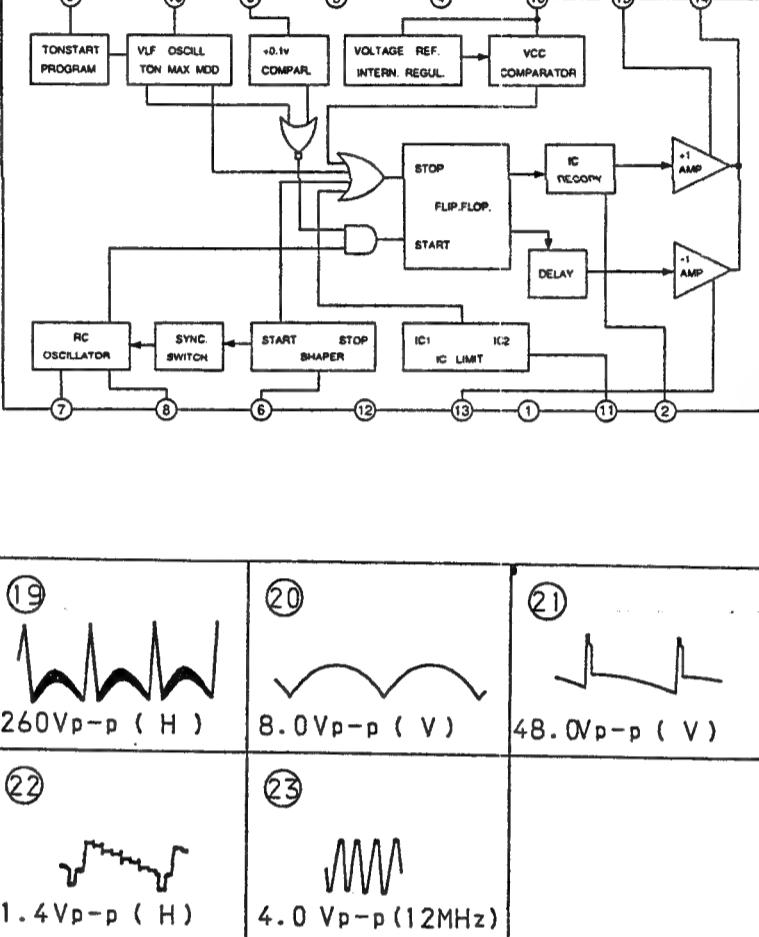
D Board IC501 TEA2028B



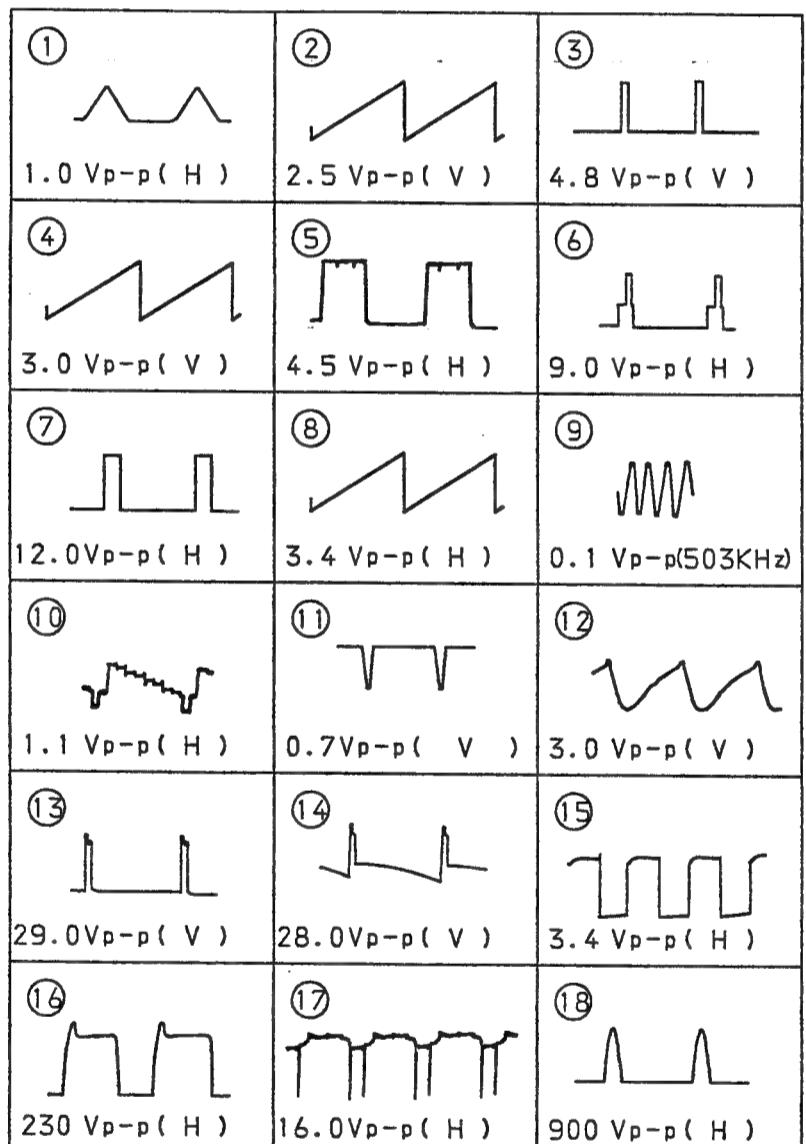
D Board IC502 TDA8170



D Board IC601 TEA2260



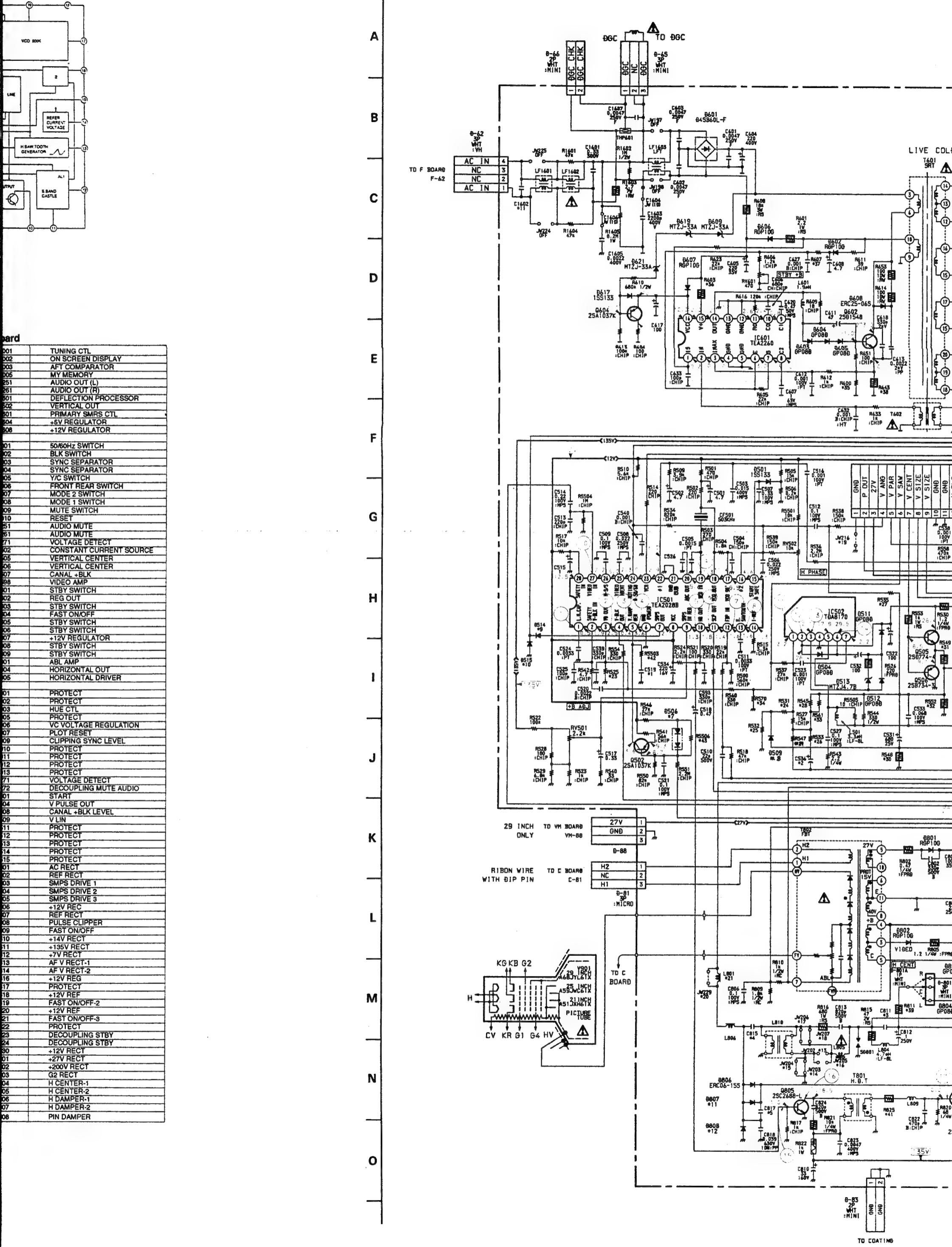
Waveform D Board

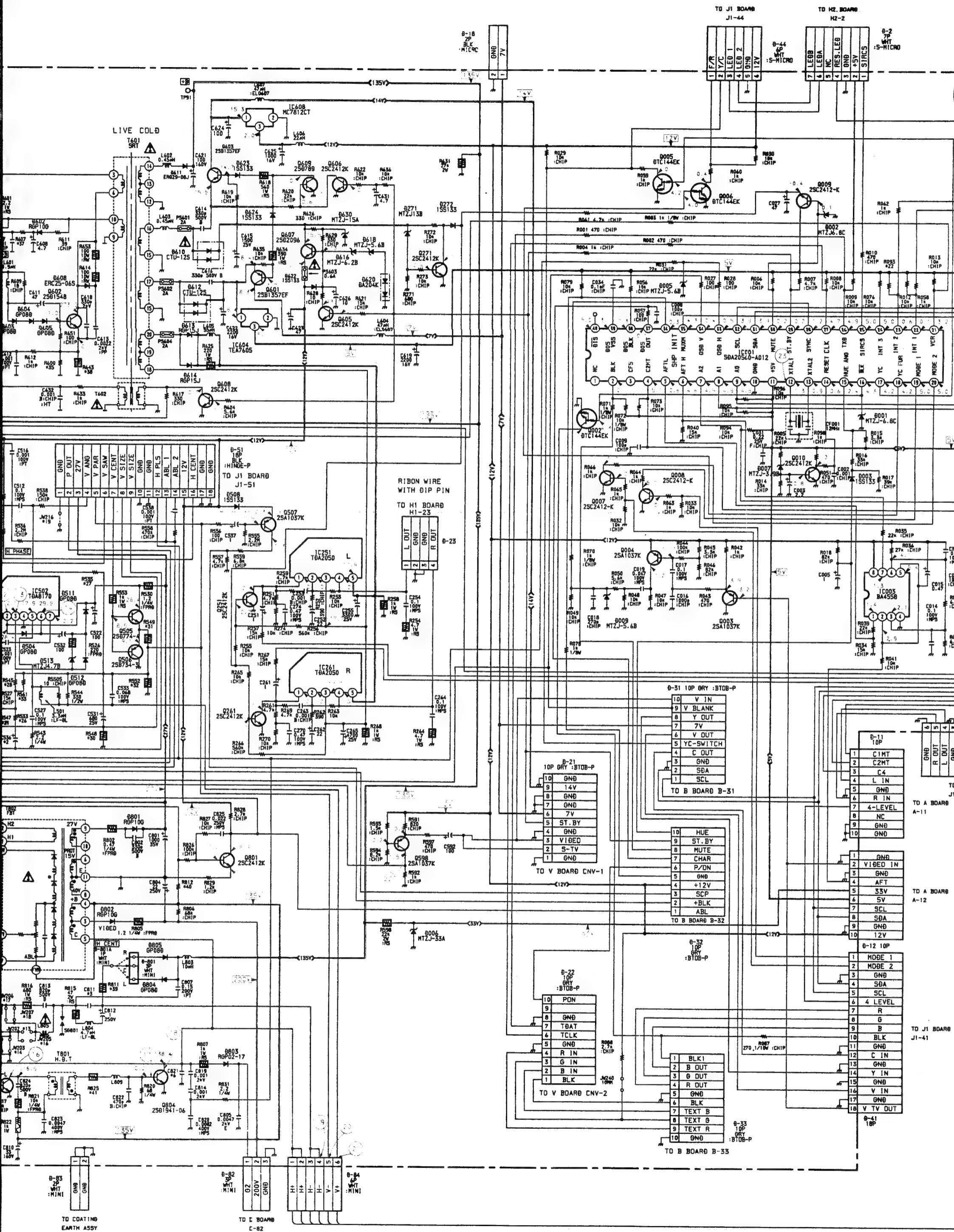
D Board  
\* Mark List

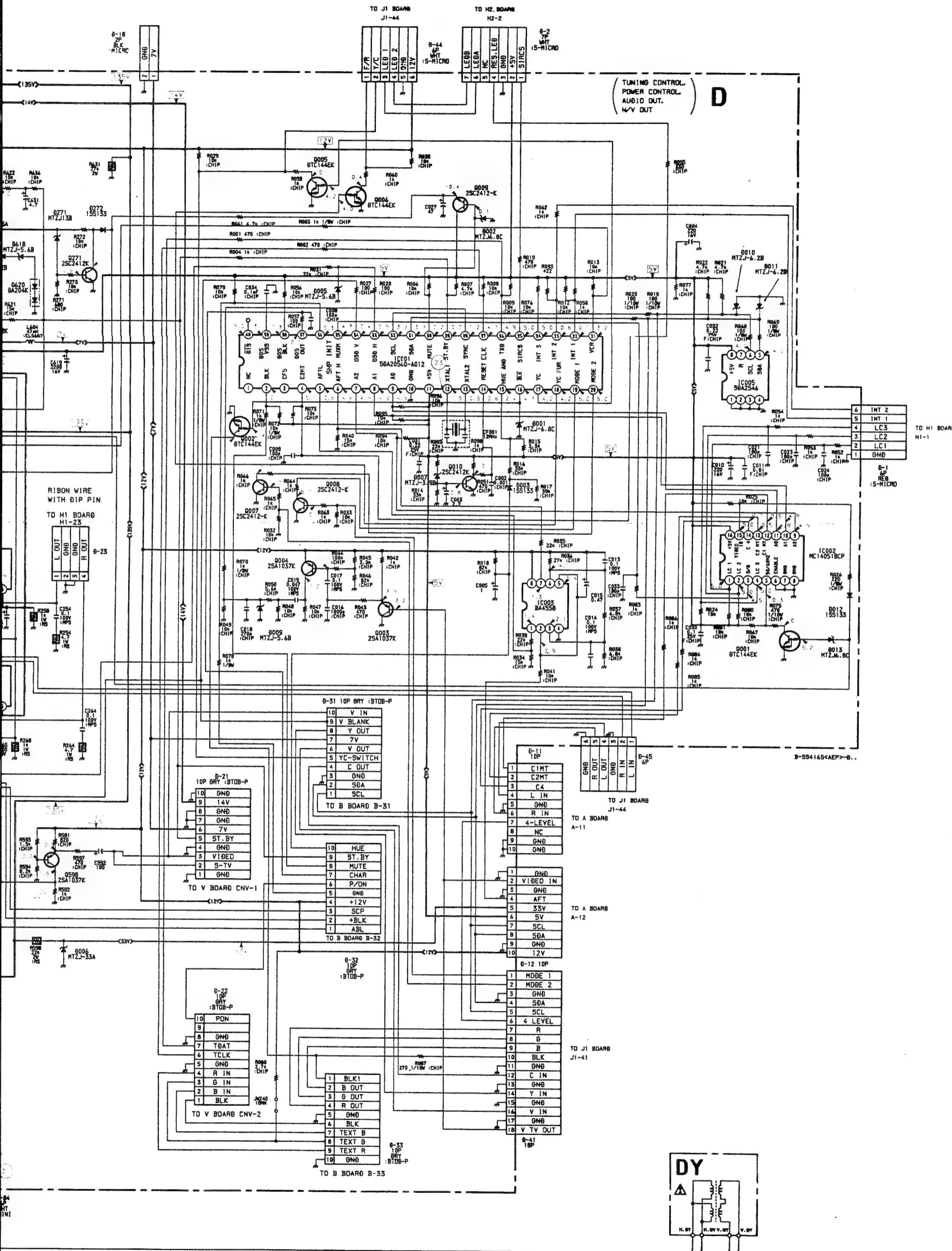
	21 inch	25 inch	29 inch
*1 C519	0.47	0.47	0.33
*2 C536	4.7uF	10uF	10uF
*3 C811	1uF	2uF	2uF
*4 C815	1uF	1uF	0.82uF
*5 C817	0.0106uF	0.015uF	0.017uF
*6 C821	680pF	680pF	470pF
*7 D506	DA204K	DA204K	—
*8 D509	—	ISS133	ISS133
*9 D514	5MM (JW)	5MM (JW)	ISS133
*10 D515	—	—	ISS133
*11 D807	—	ERC0615S	ERC06-15S
*12 D808	ERD28-08S	ERD29-08J	ERD29-08J
*13 JW202	—	—	5MM
*14 JW203	5MM	5MM	—
*15 JW204	5MM	5MM	—
*16 JW205	—	—	5MM
*17 JW206	5MM	5MM	—
*18 JW207	5MM	5MM	—
*19 JW216	15MM	15MM	—
*20 JW229	10MM	10MM	—
*21 L801	—	—	3.9MM
*22 R093	10K	—	10K
*23 R525	1K	1K	—
*24 R531	—	120K	120K
*25 R532	—	1K	1K
*26 R533	180	0	0
*27 R535	4.7M	2.2M	2.2M
*28 R545	39K	22K	22K
*29 R547	5.6K	3.3K	3.3K
*30 R548	1.2	1	1
*31 R549	470	390	390
*32 R552	1.2K	—	—
*33 R561	—	—	270K
*34 R570	—	—	680
*35 R600	—	1	1
*36 R603	15	12	12
*37 R607	4.7K	4.7K	5.6K
*38 R643	0.15 2W	0.12 2W	0.12 2W
*39 R811	100 1W	22 2W F	22 2W F
*40 R812	75K 1/2W	68K 1/2W	51K 1/2W
*41 R825	1 1W	0.47 1W	0.47 1W
*42 R5503	4.7	4.7	10
*43 R5506	—	—	12K

NOT MOUNTED

Q001	TUNING CTL
Q002	ON SCREEN DISPLAY
Q003	AFT COMPARATOR
Q004	MY MEMORY
Q005	IC251
	AUDIO OUT (L)
	IC261
	AUDIO OUT (R)
Q006	IC501
	DEFLECTION PROCESSOR
Q007	IC502
	VERTICAL OUT
Q008	IC601
	PRIMARY SMRS CTL
Q009	IC604
	+5V REGULATOR
Q010	IC608
	+12V REGULATOR
Q011	50/60Hz SWITCH
Q012	BLK SWITCH
Q013	SYNC SEPARATOR
Q014	SYNC SEPARATOR
Q015	Y/C SWITCH
Q016	FRONT REAR SWITCH
Q017	MODE 2 SWITCH
Q018	MODE 1 SWITCH
Q019	MUTE SWITCH
Q020	RESET
Q251	AUDIO MUTE
Q261	AUDIO MUTE
Q271	VOLTAGE DETECT
Q502	CONSTANT CURRENT SOURCE
Q505	VERTICAL CENTER
Q506	VERTICAL CENTER
Q507	CANAL + BLK
Q588	VIDEO AMP
Q601	STBY SWITCH
Q602	REG OUT
Q603	STBY SWITCH
Q604	FAST ON/OFF
Q605	STBY SWITCH
Q606	STBY SWITCH
Q607	+12V REGULATOR
Q608	STBY SWITCH
Q609	STBY SWITCH
Q801	ABL AMP
Q804	HORIZONTAL OUT
Q805	HORIZONTAL DRIVER
D001	PROTECT
D002	PROTECT
D003	HUE CTL
D005	PROTECT
D006	VC VOLTAGE REGULATION
D007	PLOT RESET
D009	CLIPPING SYNC LEVEL
D010	PROTECT
D011	PROTECT
D012	PROTECT
D013	PROTECT
D271	VOLTAGE DETECT
D501	DECOUPLING MUTE AUD START
D504	V PULSE OUT
D508	CANAL + BLK LEVEL
D509	V LIN
D511	PROTECT
D512	PROTECT
D513	PROTECT
D514	PROTECT
D515	PROTECT
D601	AC RECT
D602	REF RECT
D603	SMPS DRIVE 1
D604	SMPS DRIVE 2
D605	SMPS DRIVE 3
D606	+12V REC
D607	REF RECT
D608	PULSE CLIPPER
D609	FAST ON/OFF
D610	+14V REC
D611	+135V REC
D612	+7V REC
D613	AF V REC-T
D614	AF V REC-T2
D616	+12V REC
D617	PROTECT
D618	+12V REC
D619	FAST ON/OFF-2
D620	+12V REC
D621	FAST ON/OFF-3
D622	PROTECT
D623	DECOUPLING STBY
D624	DECOUPLING STBY
D630	+12V REC
D601	+27V REC
D602	+200V REC
D603	G2 REC
D604	H CENTER-1
D605	H CENTER-2
D606	H DAMPER-1
D607	H DAMPER-2
D608	PIN DAMPER





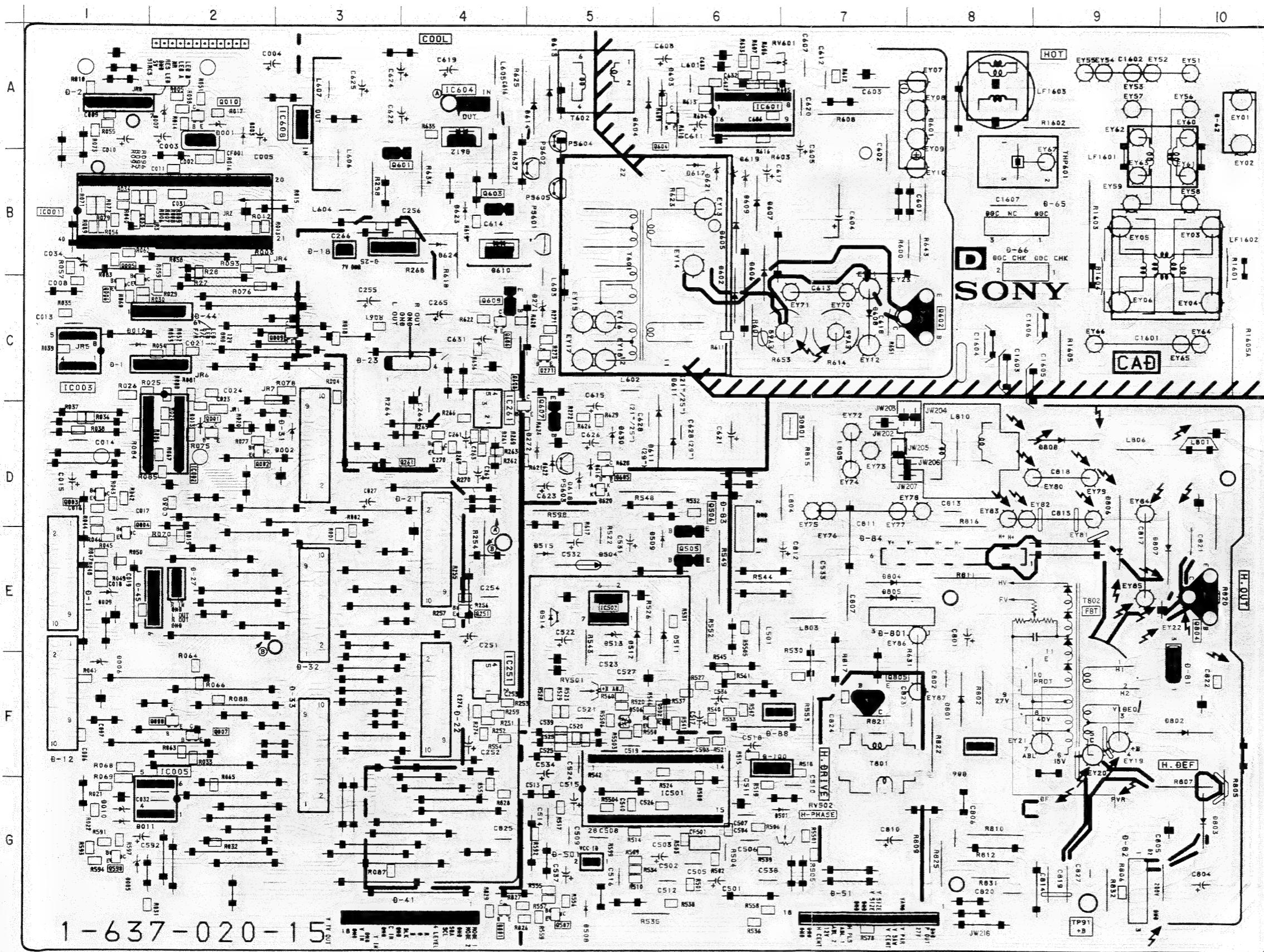


**D** TUNING CONTROL,  
POWER CONTROL.  
AUDIO OUT, HV OUT

## NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock during inspection or repair.

## - D Board -



IC	D013	D - 2
	D271	C - 5
IC001	B - 2	D272 D - 5
IC002	D - 2	D501 G - 7
IC003	C - 1	D504 E - 5
IC005	G - 2	D506 F - 5
IC251	F - 4	D508 H - 5
IC261	D - 4	D509 E - 6
IC501	G - 6	D511 E - 6
IC502	E - 5	D512 E - 5
IC601	A - 6	D513 E - 5
IC604	A - 4	D601 A - 8
IC608	A - 3	D602 C - 6
		D603 A - 6
TRANSISTOR	D604 A - 5	
	D605 B - 6	
Q001	D - 2	D606 B - 6
Q002	D - 3	D607 B - 6
Q003	D - 1	D608 C - 7
Q004	E - 2	D609 B - 6
Q005	C - 1	D610 B - 4
Q006	C - 1	D611 D - 6
Q007	F - 2	D612 A - 4
Q008	F - 2	D613 A - 5
Q009	C - 3	D614 A - 5
Q010	A - 2	D616 D - 5
Q251	E - 4	D617 B - 6
Q261	D - 4	D618 D - 5
Q271	C - 5	D619 B - 6
Q502	F - 5	D620 D - 5
Q505	E - 6	D621 B - 6
Q506	E - 6	D622 D - 5
Q507	H - 5	D623 B - 4
Q598	G - 1	D624 B - 4
Q601	B - 3	D625 D - 5
Q602	C - 8	D626 B - 6
Q603	B - 4	D627 F - 8
Q604	A - 6	D628 F - 10
Q605	D - 5	D629 G - 10
Q606	C - 4	D630 E - 7
Q607	D - 5	D631 E - 7
Q608	C - 4	D632 E - 9
Q608	C - 4	D633 E - 10
Q609	C - 4	D634 D - 9
Q801	H - 4	
Q804	E - 10	TP91 J - 9
Q805	F - 7	
DIODE		
D003	A - 2	
D002	D - 3	
D003	A - 2	
D005	G - 1	
D006	F - 1	
D007	A - 2	
D009	E - 1	
D010	G - 1	
D011	G - 1	
D012	C - 1	

B BOARD

IC
IC301 A - 2
IC302 B - 5
IC303 D - 5
IC331 C - 1
IC332 D - 3
IC1301 B - 4

## TRANSISTOR

Q301	B - 4
Q303	A - 6
Q305	A - 4
Q306	D - 4
Q311	B - 2
Q312	B - 2
Q313	B - 2
Q316	B - 2
Q330	C - 5
Q331	C - 3
Q332	D - 6
Q333	D - 5
Q334	C - 4
Q381	B - 5
Q382	B - 4
Q1301	C - 4
Q1305	C - 5
Q1306	C - 4

DIODE

D301	A - 1
D302	A - 2
D303	A - 2
D304	B - 2
D305	A - 1
D307	A - 5
D309	A - 5
D310	A - 4
D311	A - 4
D312	A - 4
D313	A - 4
D314	A - 3
D315	A - 1
D316	A - 1
D317	A - 1
D318	A - 1
D319	A - 1
D320	A - 1
D331	C - 2
D332	C - 2
D333	B - 2
D350	D - 2

### TRIMMER

CT331 B - 1

C1552 B - 1

L331 B 1

L331 D-1  
L336 D-4

L336 D-4  
VARIABLE

## VARIABLE REGISTER

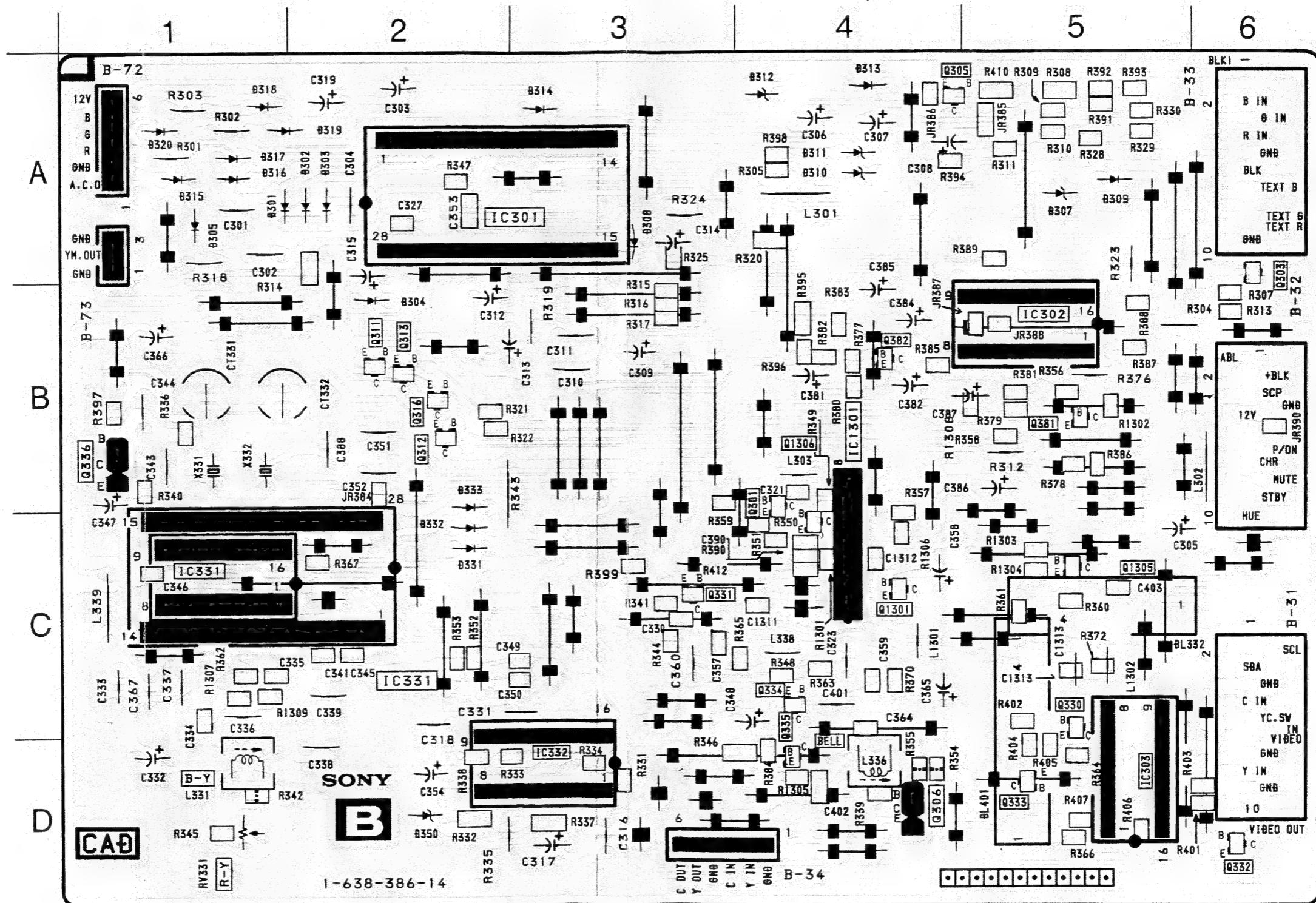
## RESISTOR

RV331 D - 1

- B Board -

8

#### [CHROMA DECODE]



**1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14**

A

B

C

D

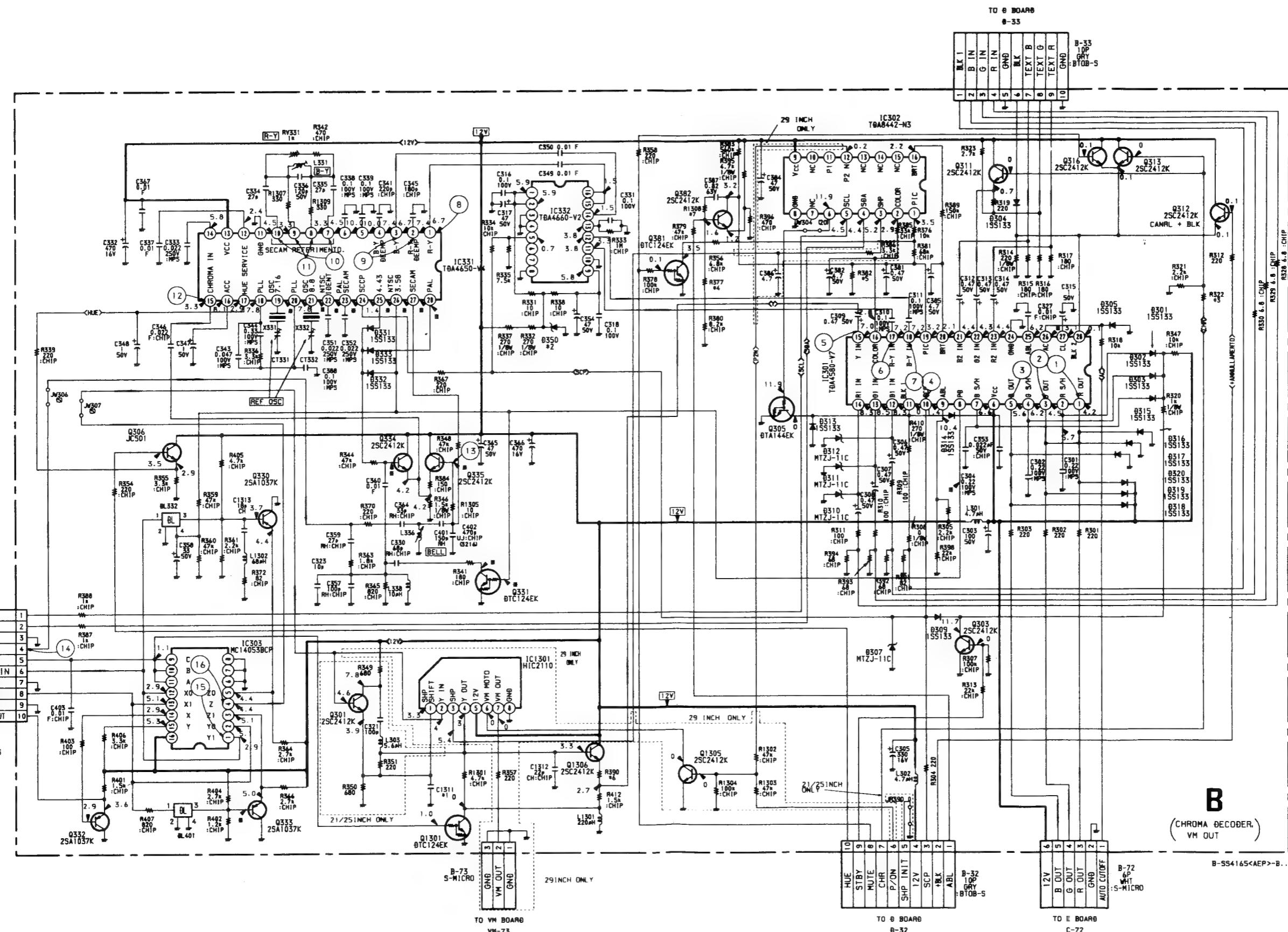
E

F

G

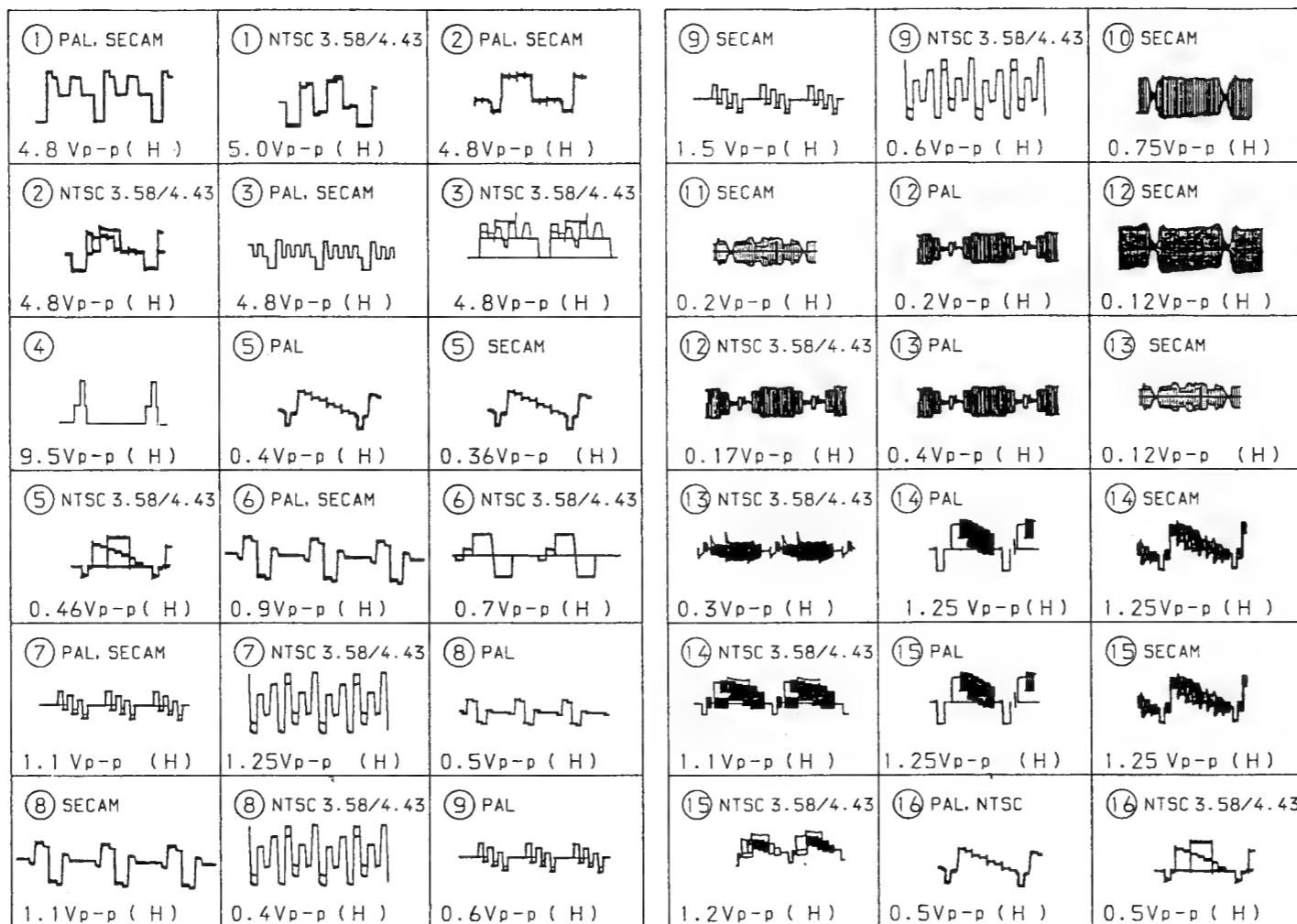
H

1



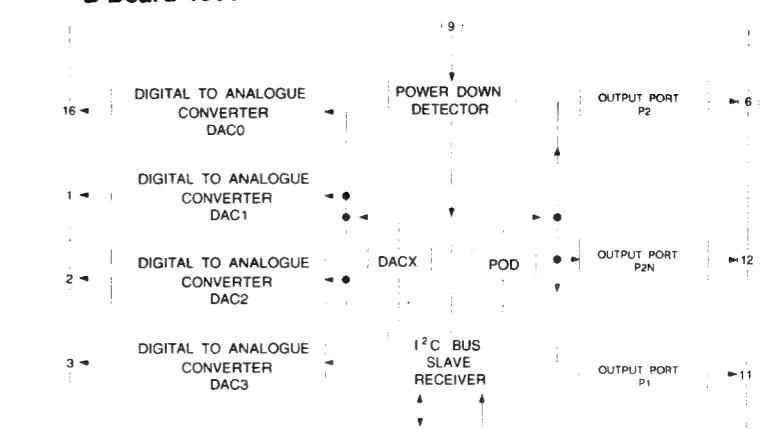
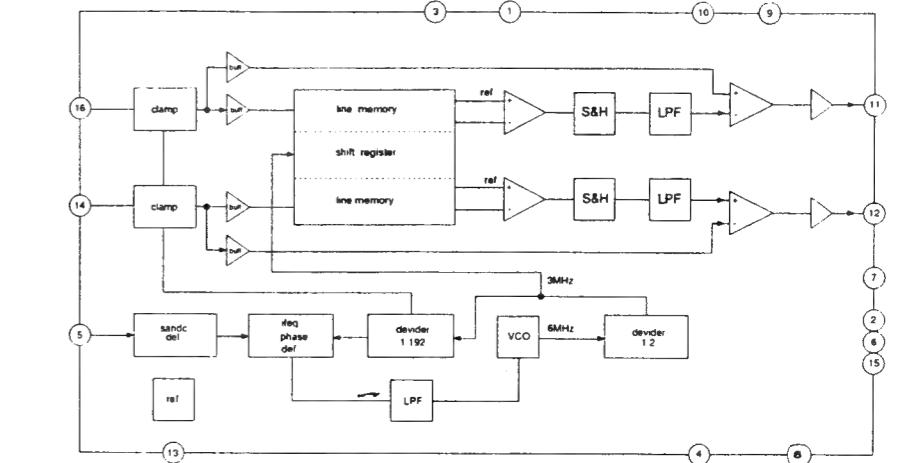
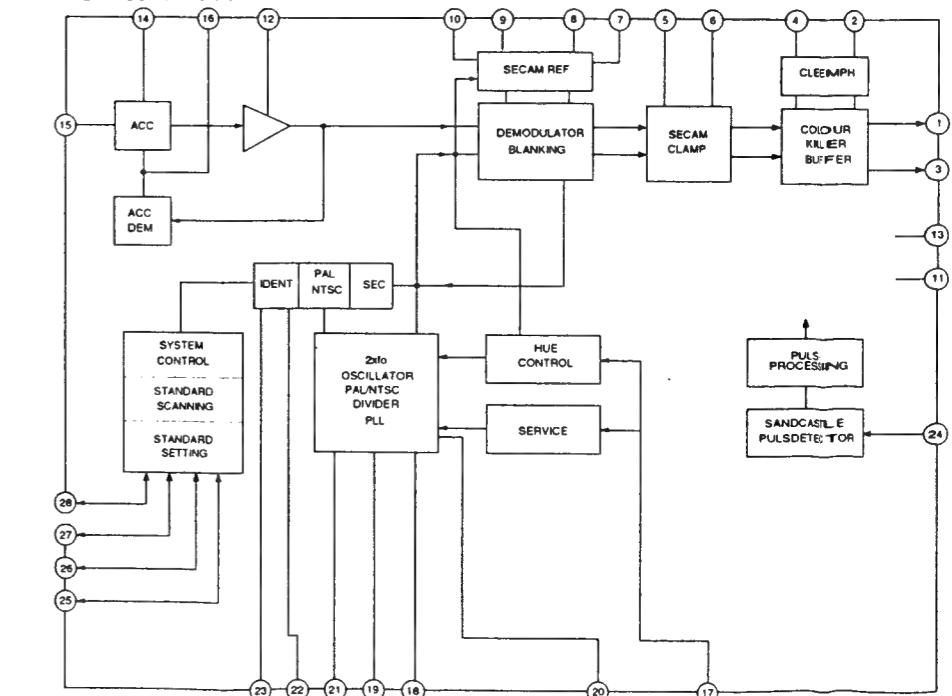
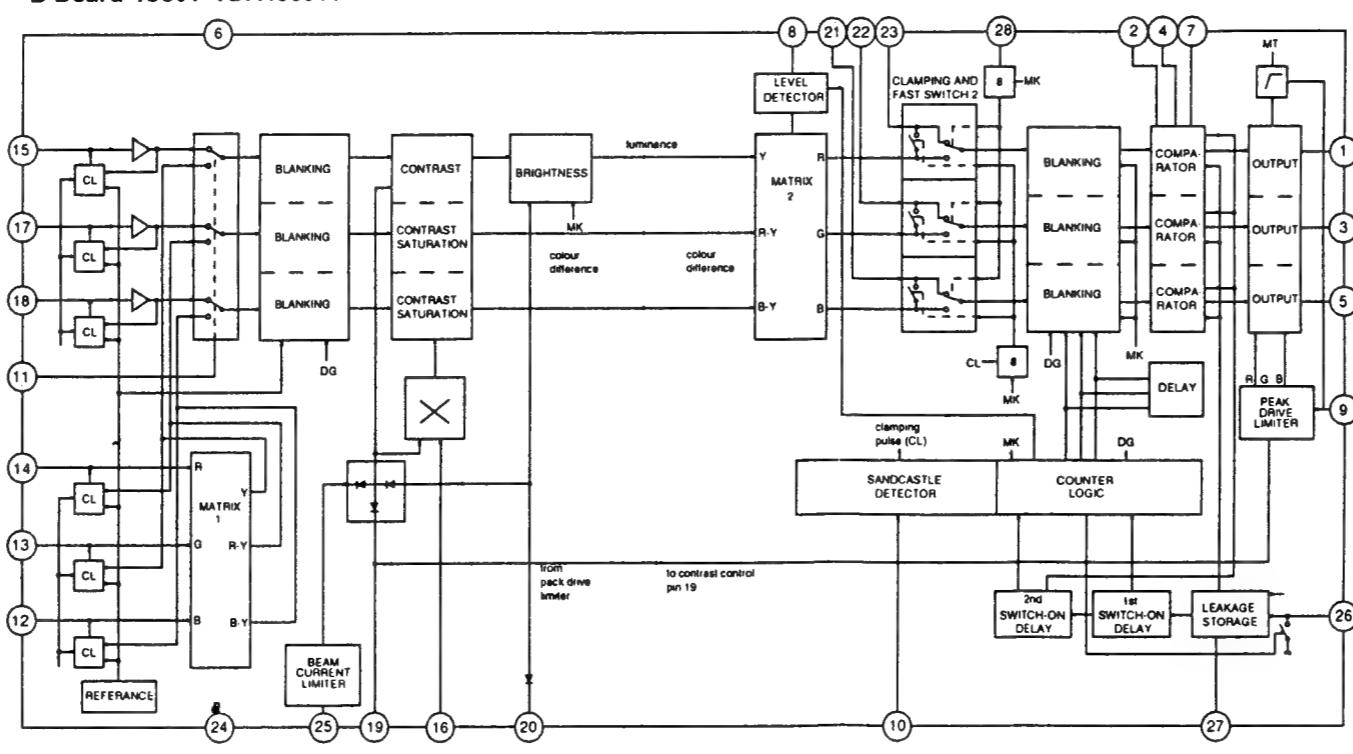
**B Board**

IC301	VIDEO PROCESSOR
IC302	D/A CONVERTER
IC303	Y/C COMP SWITCH
IC331	COLOR PROCESSOR
IC332	IH-DELAY
IC1301	SHARPNESS CONTROL (29 inch)
Q301	Y AMP (21,25 inch)
Q303	STBY SWITCH
Q305	ANTI PRIORITY SCART
Q306	VIDEO BUFFER (HUE)
Q311	ON SCREEN DISPLAY SWITCH
Q312	CANRL+BLK
Q313	ON SCREEN DISPLAY
Q316	FAS PICTURE MUTE SWITCH
Q330	VIDEO AMP
Q331	NTSC SWITCH
Q332	VIDEO BUFFER
Q333	Y AMP
Q334	PAL/NTSC SWITCH
Q335	SECAM SWITCH
Q381	MUTE
Q1301	Y BUFFER
Q1305	Y OUT (29 inch)
Q1306	Y OUT
D301	ACO AT STBY
D302	ACO AT STBY
D303	ACO AT STBY
D304	DECOUPLING BLK
D305	PROTECT
D307	PROTECT
D309	PROTECT
D310	PROTECT
D311	PROTECT
D312	PROTECT
D313	PROTECT
D314	PROTECT
D315	PROTECT
D316	PROTECT
D317	PROTECT
D318	PROTECT
D319	PROTECT
D320	PROTECT
D331	SECAM SWITCH
D332	SECAM SWITCH
D333	SECAM SWITCH
D350	PROTECT

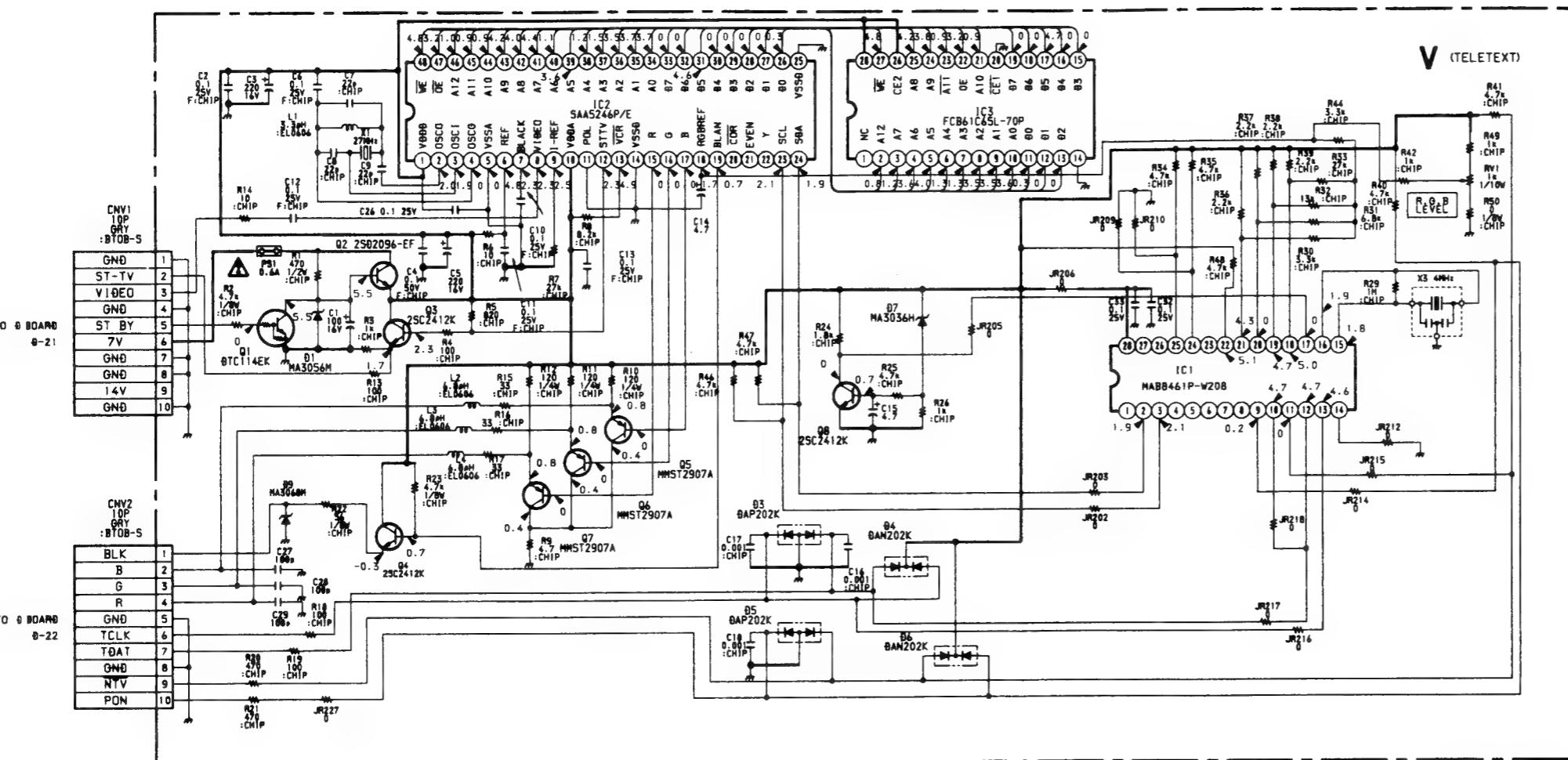
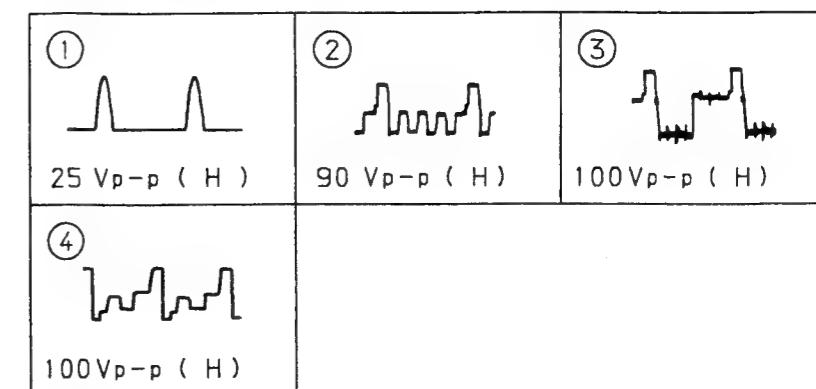
**Waveform B Board****B Board Mark List**

	21 inch	25 inch	29 inch
*1 C1311	56pF	56pF	33pF
*2 D350	MTZJ 5.6C	MTZJ 5.6B	MTZJ 5.6B
*3 R322	1K	1K	1.2K
*4 R377	330	330	1.8K
*5 R382	270K	220K	180K
*6 R390	220	220	100
*7 R1308	0	0	4.7K

	PAL	SECAM	NTSC3.58	NTSC4.43
IC301	0.1	0.1	5.8	0.1
	6.7	6.8	5.1	6.5
	3.1	3.6	3.1	2.8
	3.0	3.5	2.9	2.7
	5.6	5.6	7.1	7.2
	7.5	7.0	5.6	5.6
	0.1	0.1	0.1	5.8
	0.1	0.1	5.8	0.1
	0.1	5.8	0.1	0.1
	5.9	0.1	0.1	0.1
Q331	(B)	0.1	0.1	0.1
	(C)	0.3	0.4	0
	(B)	4.4	4.4	4.4
	(B)	4.9	0.1	4.8
	(B)	0.1	4.8	0.1

**B Board IC302 TDA8442-N3****B Board IC332 TDA4660V2****B Board IC331 TDA4650****B Board IC301 TDA4580V7**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

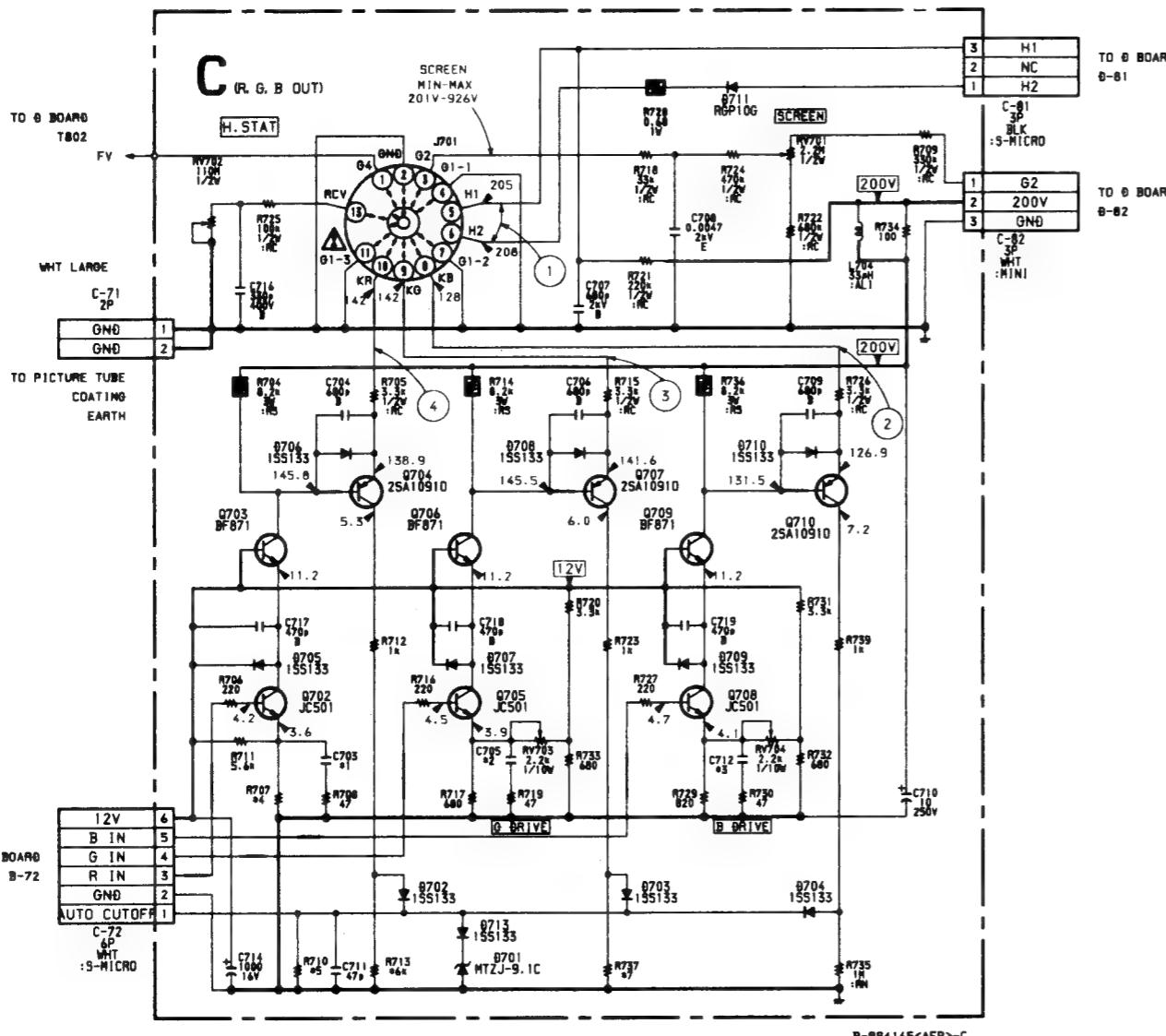
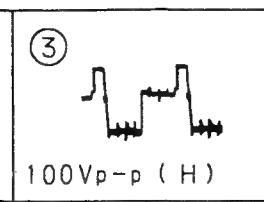
**A****Waveform C Board****C Board**  
\* **Mark List**

	21 inch	25 inch	29 inch
*1 C703	270pF	270pF	330pF
*2 C705	180pF	220pF	270pF
*3 C712	270pF	270pF	330pF
*4 R707	430	390	390
*5 R710	100K	68K	68K
*6 R713	160K	120K	120K
*7 R737	390K	820K	470K

**V Board**

IC1	MICRO-CONT
IC2	IVT
IC3	STATIC-RAM
Q1	STAND-BY
Q2	5V REG
Q3	SYNC BUFFER
Q4	BLK OUT
Q5	B OUT
Q6	G OUT
Q7	R OUT
Q8	RESET
D1	5V REG
D3	PROTECT
D4	PROTECT
D5	PROTECT
D6	PROTECT
D7	PROTECT
D9	PROTECT

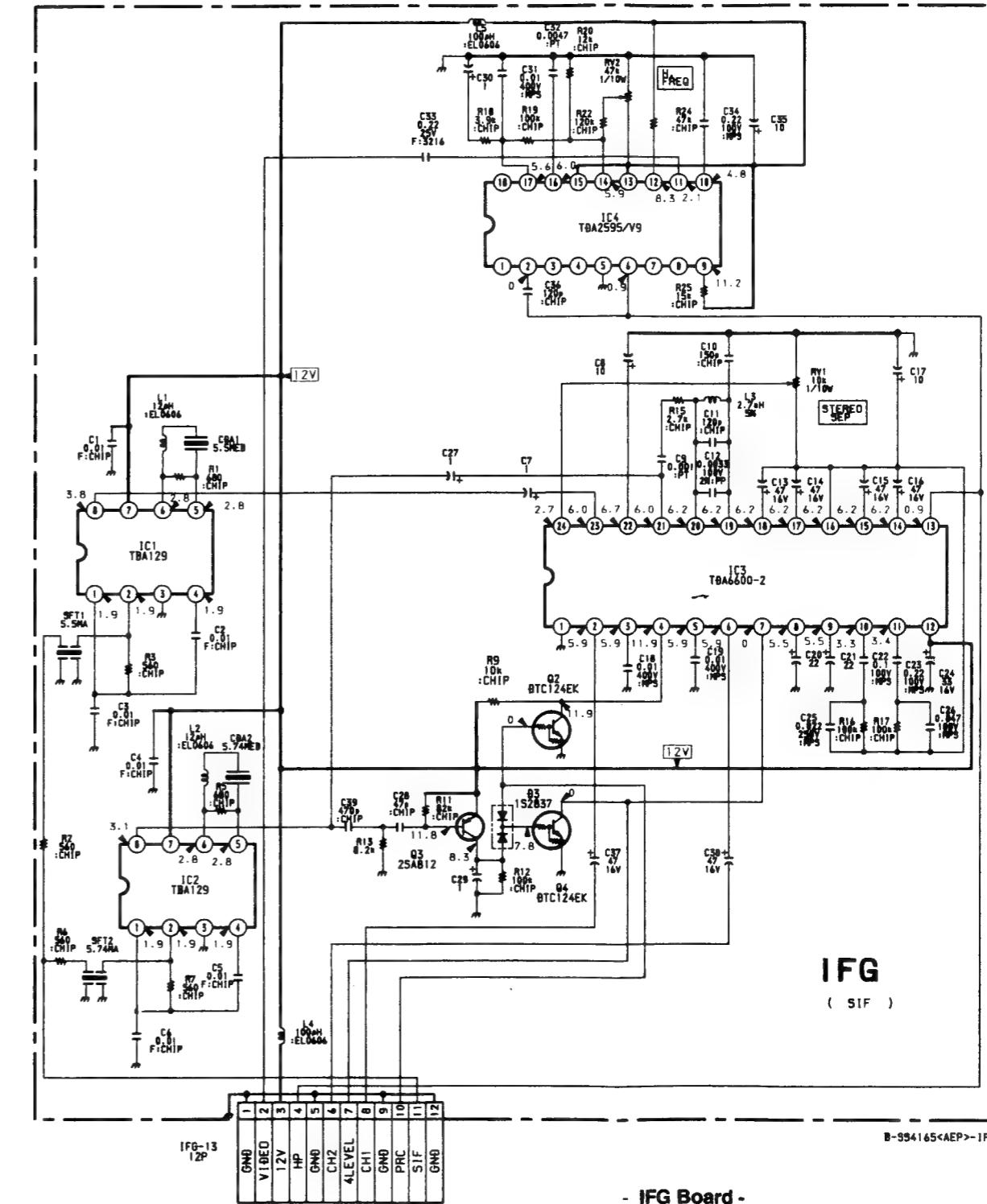
16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30



<b>25 inch</b>	<b>29 inch</b>
270pF	330pF
220pF	270pF
270pF	330pF
390	390
68K	68K
120K	120K
820K	470K

C Board

Q702	R DRIVE
Q703	R OUT
Q704	ACO MEASURING
Q705	G DRIVE
Q706	G OUT
Q707	ACO MEASURING
Q708	B DRIVE
Q709	B OUT
Q710	ACO MEASURING
D701	PROTECT
D702	PROTECT
D703	PROTECT
D704	PROTECT
D705	PROTECT
D706	PROTECT
D707	PROTECT
D708	PROTECT
D709	PROTECT
D710	PROTECT
D711	HEATER VOLTAGE REC
D713	PROTECT



- IFG Board -

IC1	5.5 DET
IC2	SIF DET AMP
IC3	H FREQ AMP
IC4	HORIZ COMBINATION
Q2	SW
Q3	SW
Q4	SW
Q5	SW

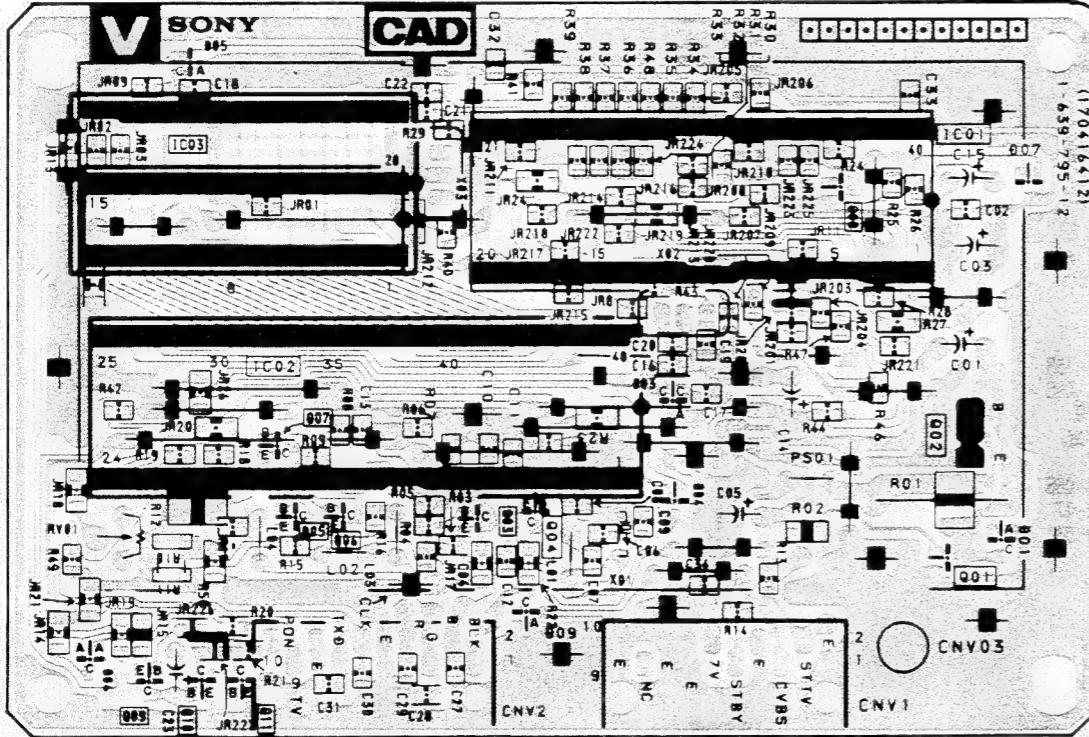
V

[TELE TEXT]  [SIF]

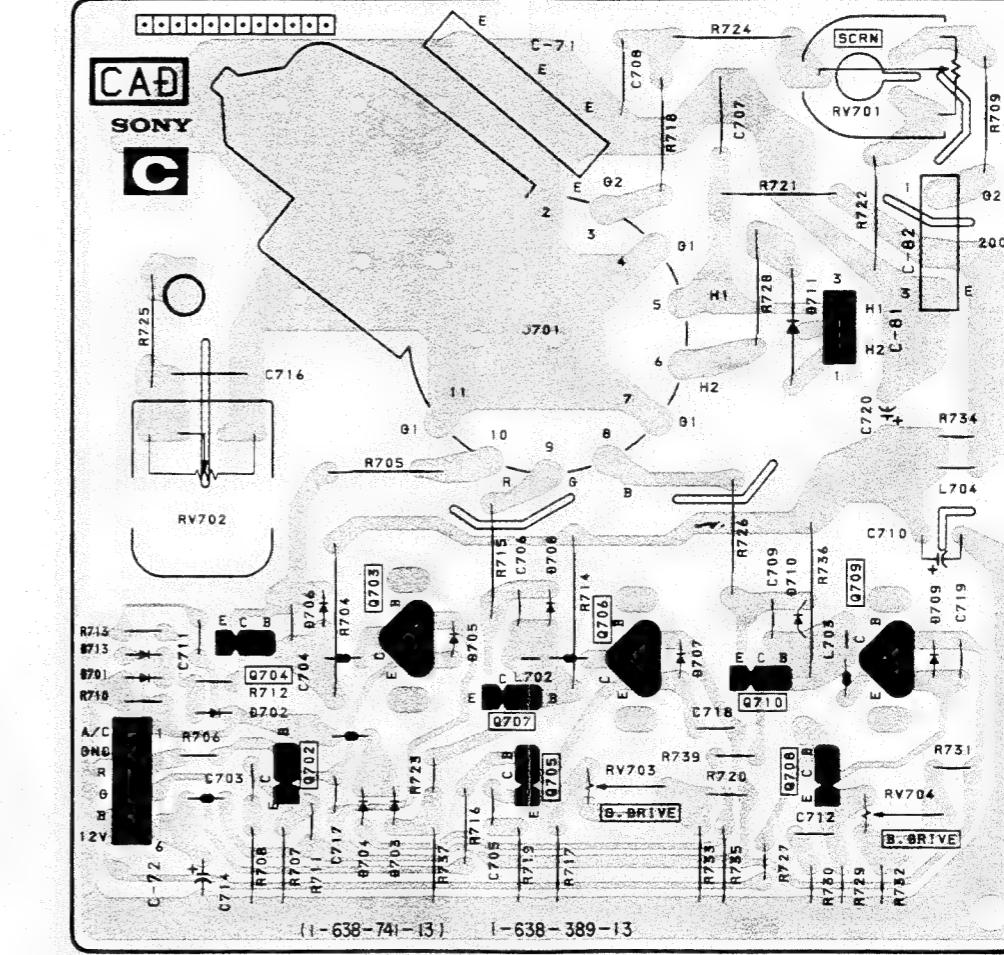
C

[R, G, B OUT]

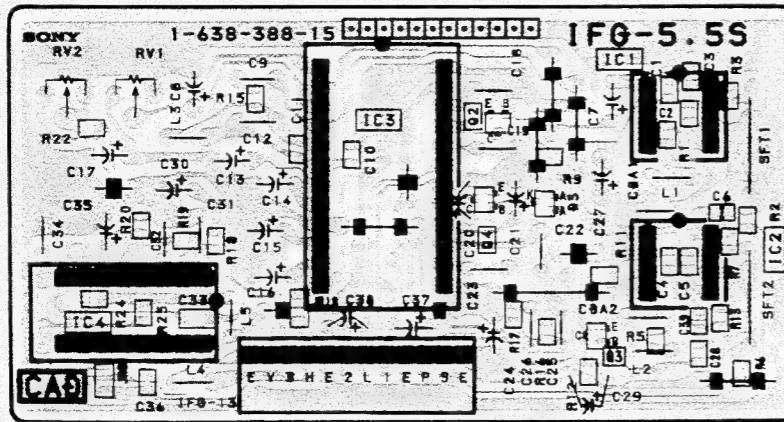
- V Board -



- IFG Board -

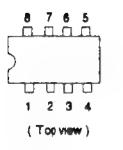


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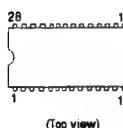


#### 5-4. SEMICONDUCTORS

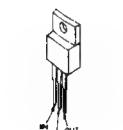
BA4558  
RC4559P  
TBA129  
TEA2014A  
TEA2031A



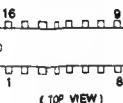
CXA1114P  
FC861C65L - 70P  
TDA4580 - V7  
TDA4650 - V4  
TDA6200  
TEA2028B



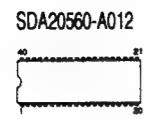
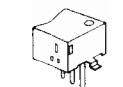
MC7812CT  
TEA7605



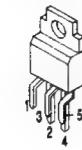
MC14051BCP  
MC14052BCP  
MC14053BCP  
PCF8574  
TDA4660V2  
TDA8442-N3  
TEA2260  
 $\mu$ PD4053BC



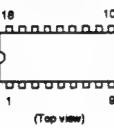
SBX1610 - 11



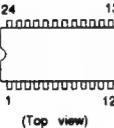
TDA2050



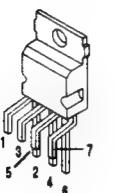
TDA2595-V9



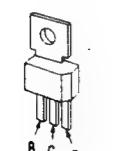
TDA6600-2



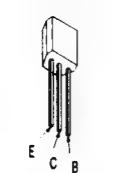
TDA8170



BF871



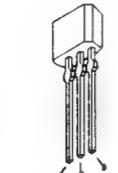
DTC144ES



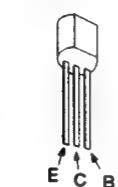
DTA144EK  
DTC114EK  
DTC124EK  
DTC144EK  
2SA812  
2SA1037K  
2SA1162  
2SA1162 - G  
2SC1623 - L5L6  
2SC2412K - R



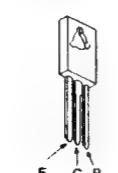
JC501  
2SC2785-HFE



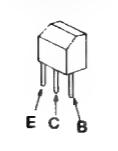
2SA1091-0  
2SD789-3  
2SD789-34



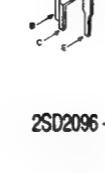
2SA1220A - P  
2SB1357 - EF  
2SC2688 - LK



2SB734 - 34  
2SD774 - 34



2SD1548



2SD2096 - EF



DAN202K  
MA152WK



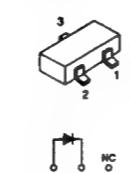
DA204K  
1SS226



DAP202K



MA3036-H  
MA3056 - M  
MA3068 - M  
RD3.6M - B2  
RD5.6M - B2  
RD6.8M - B2



ERC06 - 15S  
ERC25 - 06S  
RGP10G  
RU - 3AM  
EL - 1Z  
ERD28 - 08S  
RGP02 - 17  
ERD29 - 08J



GP08D

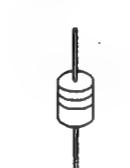
CATHODE  
ANODE



MTZJ-11C  
MTZJ-12C  
MTZJ - 4.7B  
MTZJ - 5.6B  
MTZJ - 5.6C  
MTZJ - 6.2B  
MTZJ - 6.8C  
MTZJ - 7.5C  
MTZJ - 9.1C  
MTZJ - 15A  
MTZJ - 3.9B  
MTZJ - 33A  
MTZJ - 36D  
RD11ES - B3  
RD12ES - B2  
RD6.8ES - B2  
RD7.5ES - B2  
RD9.1ES - B2  
UZ-4.78SC  
1SS119  
1SS133



LD-201VR



ANODE  
CATHODE



## SECTION 6

## EXPLODED VIEWS

## NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

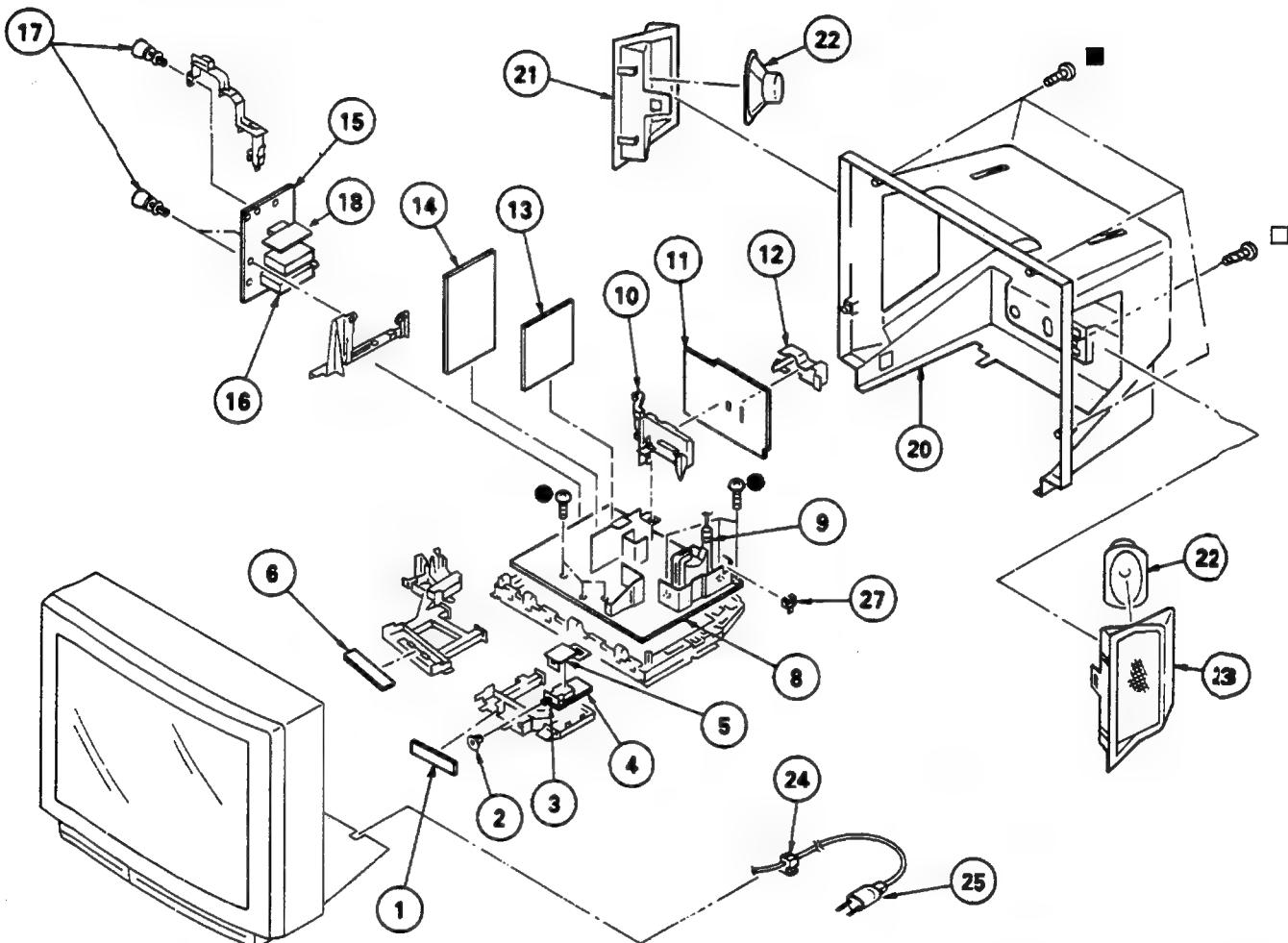
Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  $\Delta$  are critical for safety.

Replace only with part number specified.

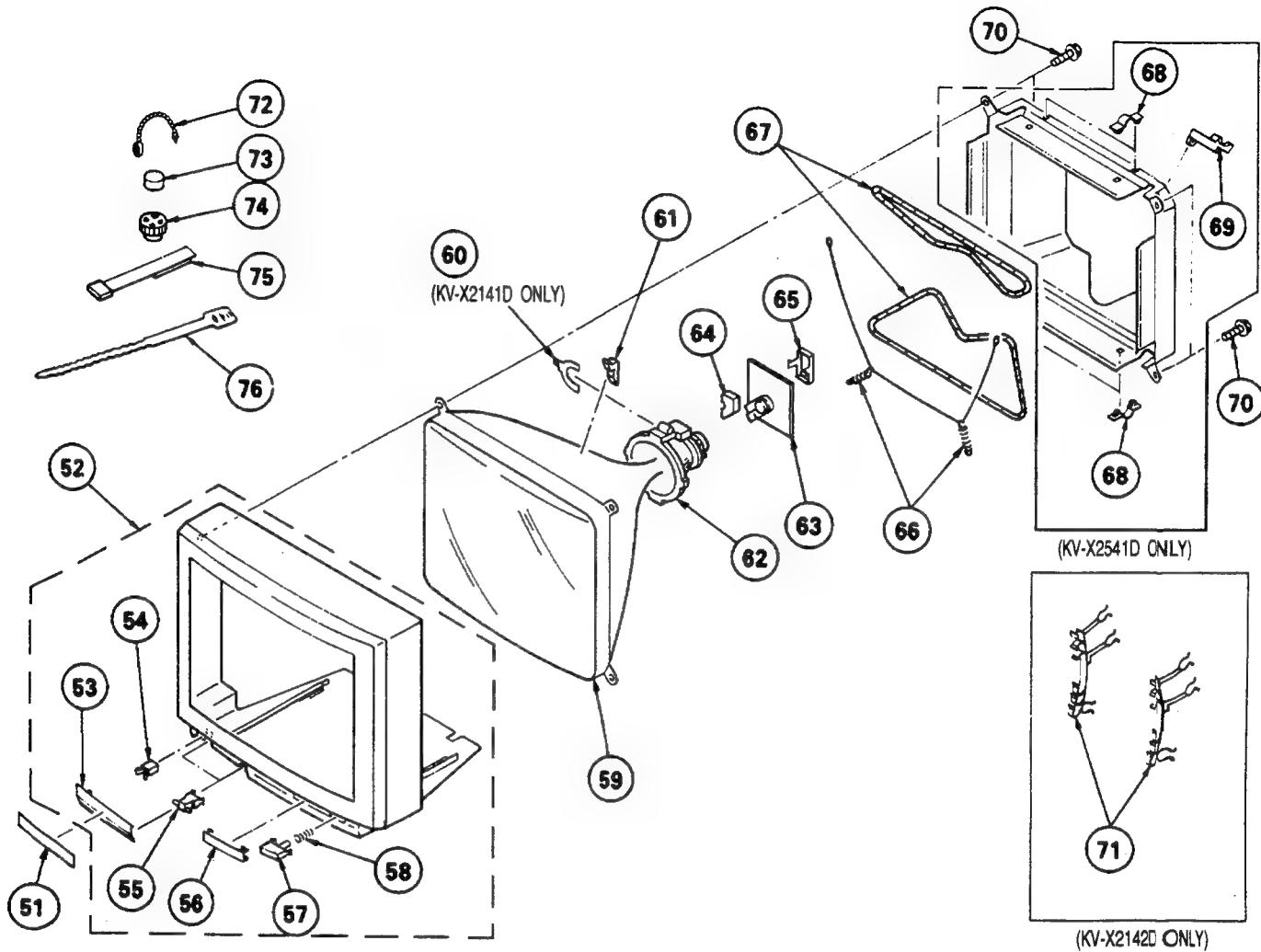
## 6-1. CHASSIS

- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-658-663-79
- : BVYP4 x 20 7-658-664-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	* 1-638-392-11	H2 BOARD		14	A-1621-046-A	B BOARD, COMPLETE	
2	4-386-611-01	COVER, SWITCH		15	A-1632-022-A	A BOARD, COMPLETE	
3	$\Delta$ 1-571-433-12	SWITCH, PUSH (AC POWER)		16	1-465-301-11	TUNER (UV-816)	
4	* 1-638-390-11	F BOARD		17	4-386-618-01	RIVET, T TYPE	
5	4-200-274-01	COVER, POWER SWITCH		18	A-1654-004-A	IFG BOARD, COMPLETE	
6	* 1-638-391-11	H1 BOARD		20	4-200-158-21	COVER, REAR	(KV-X2141D)
8	A-1642-035-A	D BOARD, COMPLETE	(KV-X2141D)	21	4-200-135-41	COVER, REAR	(KV-X2541D)
	A-1642-031-A	D BOARD, COMPLETE	(KV-X2541D)	22	X-4200-025-6	BAFFLE (L) ASSY, BOARD	
9	$\Delta$ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		23	1-544-525-11	SPEAKER	
10	* 4-386-624-11	BRACKET, J		24	$\Delta$ 4-389-201-03	HOLDER, AC CORD	
11	A-1651-018-A	J1 BOARD, COMPLETE		25	$\Delta$ 1-590-501-11	CORD, POWER (WITH NOISE FILTR)	
12	4-200-014-01	BRACKET, TERMINAL		27	*3-646-071-00	HOLDER, WIRE	
13	A-1645-013-A	V BOARD, COMPLETE					

**6-2. PICTURE TUBE (KV-X2141D / KV-X2541D ONLY)**

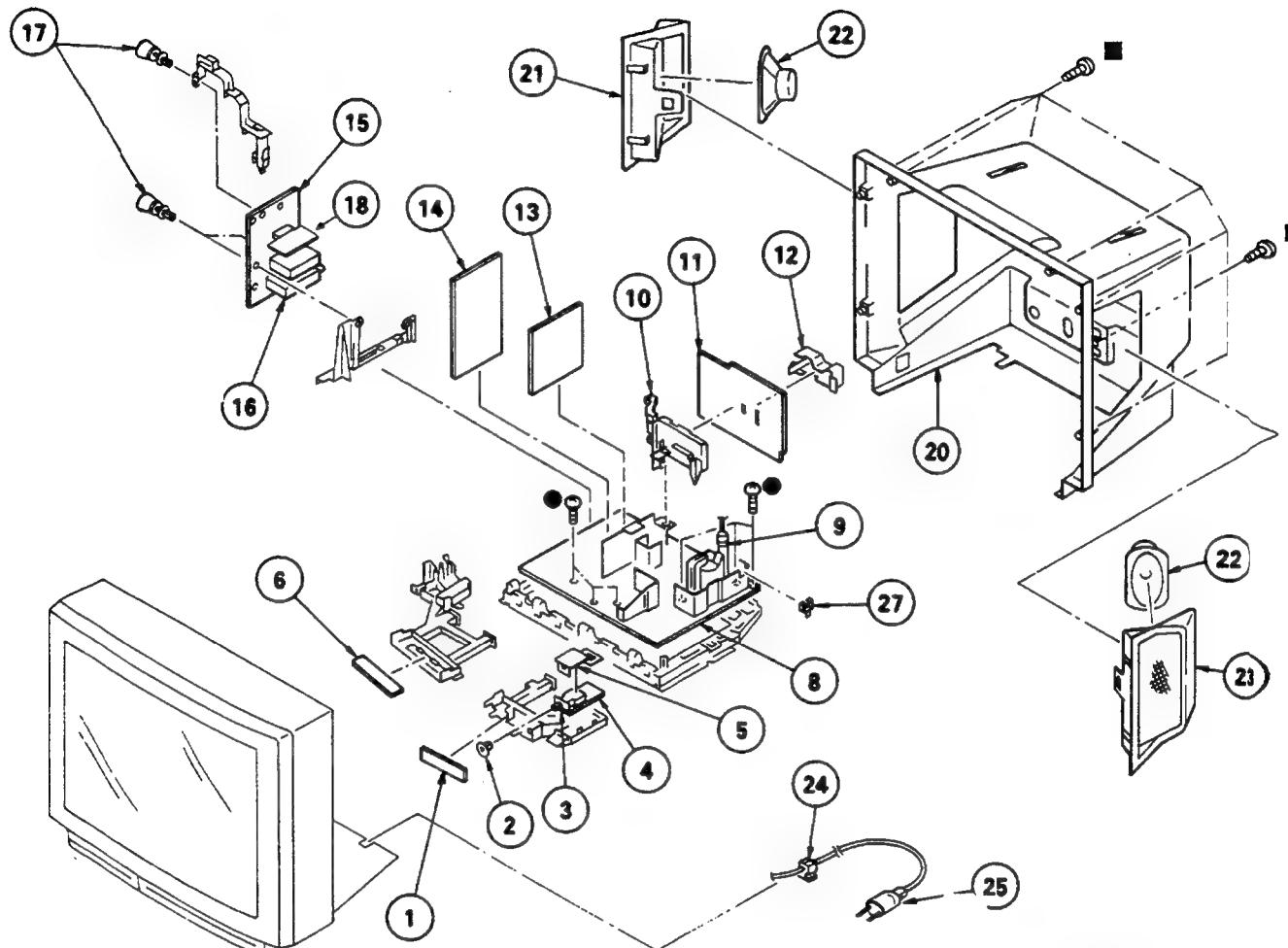


The components identified by shading and marked are critical for safety.  
Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-200-162-31	COVER, DOOR		63	*A-1638-014-A	C BOARD, COMPLETE	(KV-X2141D)
52	X-4200-027-8	CABINET ASSY (WITH BEZEL ASSY)	53-58 (KV-X2141D)	64	*A-1638-011-A	C BOARD, COMPLETE	(KV-X2541D)
	X-4200-121-1	CABINET ASSY (WITH BEZEL ASSY)	53-58 (KV-X2541D)	65	*4-379-167-01	COVER (MAIN), CV	
53	4-200-159-11	DOOR		66	*4-379-160-01	COVER (REAR LID), CV	
54	4-392-036-01	CATCHER, PUSH		67	▲ 1-426-383-11	COIL, DEMAGNETIZATION	(KV-X2141D)
55	3-703-035-11	SHAFT, LID		68	▲ 1-460-091-11	COIL, DEGAUSS	(KV-X2541D)
56	4-200-148-01	WINDOW, ORNAMENTAL		69	*4-385-916-01	HOLDER (D)	(KV-X2541D)
57	4-200-150-11	BUTTON, POWER		70	*4-387-284-01	HOLDER, LEAD	(KV-X2541D)
58	4-329-112-51	SPRING		71	4-036-189-01	SCREW (S), PT	(KV-X2141D)
59	▲ 8-738-758-05	PICTURE TUBE (A51JXH61X)	(KV-X2141D)	72	4-036-188-01	SCREW (M), PT	(KV-X2541D)
	▲ 8-733-231-05	PICTURE TUBE (A59JWC61X)	(KV-X2541D)	73	*4-386-622-01	BAND, DGC	(KV-X2141D)
60	1-452-277-00	MAGNET, BMC	(KV-X2141D)	74	4-308-870-00	CLIP, LEAD WIRE	
61	3-704-495-01	SPACER, DY		75	1-452-032-00	MAGNET, DISK; 10MM	
62	▲ 1-451-295-11	DEFLECTION YOKE (Y21PFA2)	(KV-X2141D)	76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	▲ 1-451-311-21	DEFLECTION YOKE (Y25FXA)	(KV-X2541D)	77	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	(KV-X2141D)
				78	X-4387-214-1	PERMALLOY ASSY, CORRECTIVE	(KV-X2541D)
				79	3-701-007-00	BAND, BINDING	

## 6-3. CHASSIS (KV-X2941D ONLY)

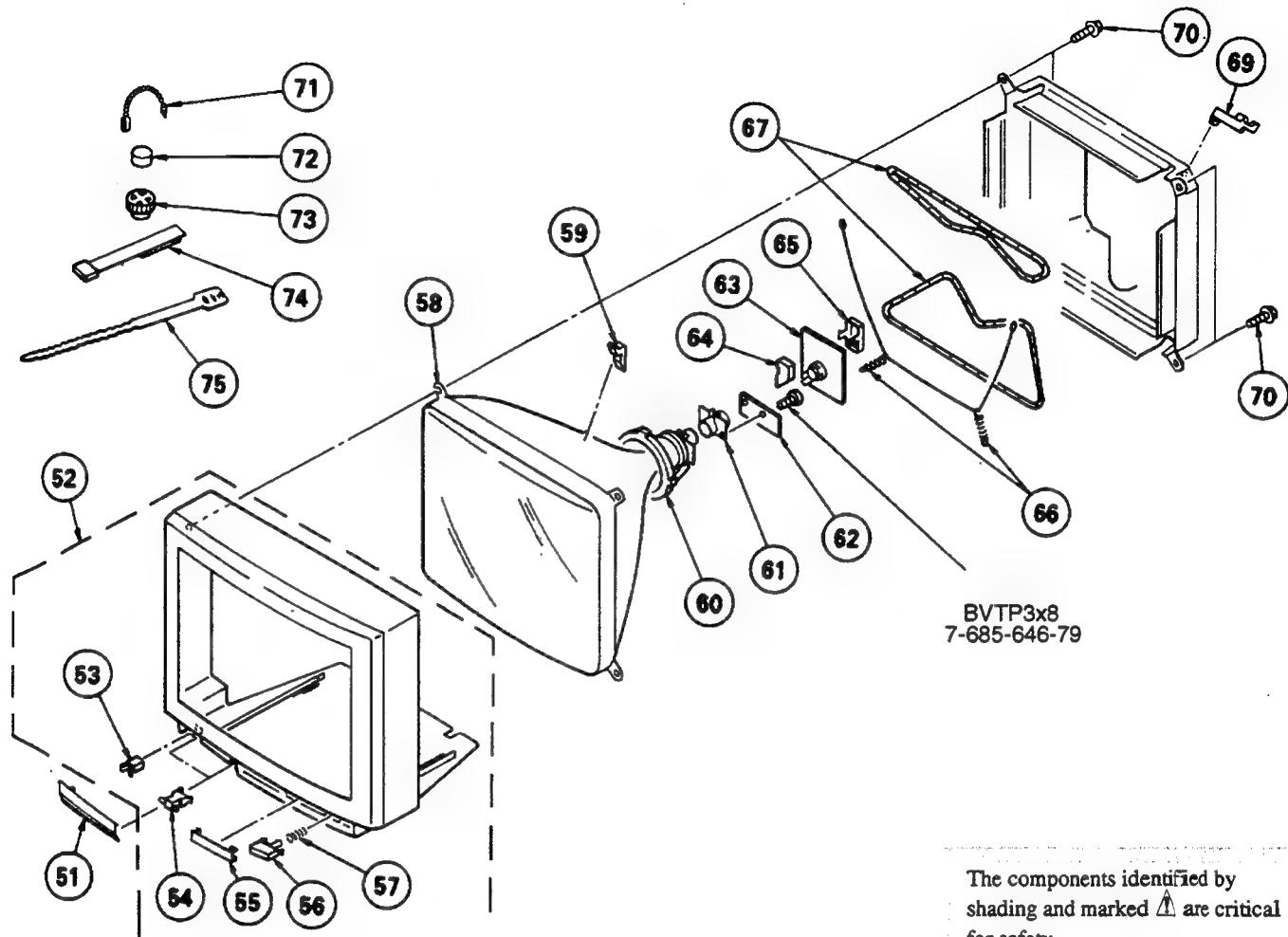
- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-658-663-79



The components identified by shading and marked **▲** are critical for safety.  
Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD		14	A-1621-040-A	B BOARD, COMPLETE	
2	4-386-611-01	COVER, SWITCH		15	A-1632-094-A	A BOARD, COMPLETE	
3	1-571-433-12	SWITCH, PUSH (AC POWER)		16	1-465-301-11	TUNER (UV-816)	
4	*1-638-390-11	F BOARD		17	4-386-618-01	RIVET, T TYPE	
5	4-200-274-01	COVER, POWER SWITCH		18	A-1654-008-A	IFG BOARD COMPLETE	
6	*1-638-391-11	H1 BOARD		20	4-398-910-11	COVER, REAR	
8	A-1642-032-A	D BOARD, COMPLETE		21	X-4398-901-2	BOARD ASSY, BAFFLE	
9	▲ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)	▲	22	1-544-525-11	SPEAKER	
10	*4-386-624-11	BRACKET, J		23	▲ 4-389-201-01	HOLDER, AC CORD	
11	A-1651-038-A	J1 BOARD, COMPLETE		24	▲ A 1-590-501-11	CORD, POWER (WITH NOISE FILTR)	
12	4-200-014-01	BRACKET, TERMINAL		26	*3-646-071-00	HOLDER, WIRE	
13	A-1645-013-A	V BOARD, COMPLETE					

6-4. PICTURE TUBE (KV-X2941D ONLY)



The components identified by shading and marked  $\triangle$  are critical for safety.  
Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-398-911-41	DOOR, CONTROL		63	*1-1638-013-A	C BOARD, COMPLETE	
52	X-4398-902-3	CABINET ASSY (WITH BEZEL ASSY)	53-57	64	*4-379-167-01	COVER (MAIN), CV	
53	4-392-036-01	CATCHER, PUSH		65	*4-379-160-01	COVER (REAR LID), CV	
54	3-703-035-11	SHAFT, LID		66	4-369-318-00	SPRING, TENSION	
55	4-200-148-01	WINDOW, ORNAMENTAL		67 $\triangle$	1-426-398-11	COIL, DEMAGNETIZATION	
56	4-200-150-11	BUTTON, POWER		69	*4-387-284-01	HOLDER, LEAD	
57	4-329-112-21	SPRING		70	4-036-188-01	SCREW (M), PT	
58 $\triangle$	8-733-831-05	PICTURE TUBE (A68JYKL61X)		71	4-308-870-00	CLIP, LEAD WIRE	
59	3-704-495-01	SPACER, DY		72	1-452-032-00	MAGNET, DISK; 10MM	
60 $\triangle$	1-451-313-21	DEFLECTION YOKE (Y29FXA)		73	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
61 $\triangle$	1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)		74	X-4603-312-0	PERMALLOY ASSY	
62	*1-634-193-11	M BOARD		75	3-701-007-00	BAND, BINDING	

## **SECTION 7**

### **ELECTRICAL PARTS LIST**

Components identified by  
padding and marked  are critical  
for safety.  
Replace only with part number  
specified.

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

  - All resistors are in ohms
  - E : nonflammable

When indicating parts by reference number, please include the board name.

**CAPACITORS**                    **COILS**  
 MF :  $\mu\text{F}$ , PF :  $\mu\mu\text{F}$       MMH : mH, UH :  $\mu\text{H}$

**B**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
< DIODE >											
D301	8-719-911-19	DIODE 1SS119		Q332	8-729-216-22	TRANSISTOR 2SA1162-G					
D302	8-719-911-19	DIODE 1SS119		Q333	8-729-216-22	TRANSISTOR 2SA1162-G					
D303	8-719-911-19	DIODE 1SS119		Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D304	8-719-911-19	DIODE 1SS119		Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D305	8-719-911-19	DIODE 1SS119		Q381	8-729-901-00	TRANSISTOR DTC124EK					
D307	8-719-110-23	DIODE RD11ESB3		Q382	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D309	8-719-911-19	DIODE 1SS119		Q1301	8-729-901-00	TRANSISTOR DTC124EK					
D310	8-719-110-23	DIODE RD11ESB3		Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-X2941D)				
D311	8-719-110-23	DIODE RD11ESB3		Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D312	8-719-110-23	DIODE RD11ESB3		< RESISTOR >							
D313	8-719-911-19	DIODE 1SS119		JR385	1-216-206-00	METAL GLAZE	2.2K 5%	1/8W			
D314	8-719-911-19	DIODE 1SS119		JR387	1-216-295-00	METAL GLAZE	0 5%	1/10W			
D315	8-719-911-19	DIODE 1SS119		JR390	1-216-295-00	METAL GLAZE	0 5%	1/10W			
D316	8-719-911-19	DIODE 1SS119		R301	1-249-409-11	CARBON	220 5%	1/4W			
D317	8-719-911-19	DIODE 1SS119		R302	1-249-409-11	CARBON	220 5%	1/4W			
D318	8-719-911-19	DIODE 1SS119		R303	1-249-409-11	CARBON	220 5%	1/4W			
D319	8-719-911-19	DIODE 1SS119		R304	1-249-409-11	CARBON	220 5%	1/4W			
D320	8-719-911-19	DIODE 1SS119		R305	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W			
D331	8-719-911-19	DIODE 1SS119		R307	1-216-097-00	METAL GLAZE	100K 5%	1/10W			
D332	8-719-911-19	DIODE 1SS119		R308	1-216-296-00	METAL GLAZE	0 5%	1/8W			
D333	8-719-911-19	DIODE 1SS119		R309	1-216-025-00	METAL GLAZE	100 5%	1/10W			
D350	8-719-109-89	DIODE RD5.6ESB2		R310	1-216-025-00	METAL GLAZE	100 5%	1/10W			
				R311	1-216-025-00	METAL GLAZE	100 5%	1/10W			
< DELAY LINE >											
DL332	1-236-062-11	MODULE, Y DELAY LINE		R312	1-249-409-11	CARBON	220 5%	1/4W			
DL401	1-415-613-11	DELAY LINE, Y		R313	1-216-081-00	METAL GLAZE	22K 5%	1/10W			
< IC >											
IC301	8-759-517-43	IC TDA4580-V7		R314	1-216-182-00	METAL GLAZE	220 5%	1/8W			
IC302	8-759-980-60	IC TDA8442N3		R315	1-216-031-00	METAL GLAZE	180 5%	1/10W			
IC303	8-759-140-53	IC UPD4053BC		R316	1-216-031-00	METAL GLAZE	180 5%	1/10W			
IC331	8-759-521-22	IC TDA4650/V4		R317	1-216-031-00	METAL GLAZE	180 5%	1/10W			
IC332	8-759-505-39	IC TDA4660V2		R318	1-249-429-11	CARBON	10K 5%	1/4W			
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	(KV-X2941D)	R319	1-249-409-11	CARBON	220 5%	1/4W			
< COIL >											
L301	1-410-868-11	INDUCTOR	4.7UH	R320	1-216-198-00	METAL GLAZE	1K 5%	1/8W			
L302	1-410-868-11	INDUCTOR	4.7UH	R321	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W			
L303	1-408-406-00	INDUCTOR	5.6UH	R322	1-216-049-00	METAL GLAZE	1K 5%	1/10W			
				R328	1-216-311-00	METAL GLAZE	6.8 5%	1/10W			
				R329	1-216-311-00	METAL GLAZE	6.8 5%	1/10W			
				R330	1-216-311-00	METAL GLAZE	6.8 5%	1/10W			
				R331	1-216-001-00	METAL GLAZE	10 5%	1/10W			
L301	1-408-409-00	INDUCTOR	10UH	R332	1-216-184-00	METAL GLAZE	270 5%	1/8W			
L1301	1-408-425-00	INDUCTOR	220UH	R333	1-216-121-00	METAL GLAZE	1M 5%	1/10W			
L1302	1-408-419-00	INDUCTOR	68UH	R334	1-216-073-00	METAL GLAZE	10K 5%	1/10W			
< TRANSISTOR >											
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R335	1-247-852-11	CARBON	7.5K 5%	1/4W			
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R336	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W			
Q305	8-729-901-06	TRANSISTOR DTA144EK		R337	1-216-184-00	METAL GLAZE	270 5%	1/8W			
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R338	1-216-001-00	METAL GLAZE	10 5%	1/10W			
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R339	1-216-033-00	METAL GLAZE	220 5%	1/10W			
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R341	1-216-031-00	METAL GLAZE	180 5%	1/10W			
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R342	1-216-041-00	METAL GLAZE	470 5%	1/10W			
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-089-00	METAL GLAZE	47K 5%	1/10W			
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R346	1-216-202-00	METAL GLAZE	1.5K 5%	1/8W			
Q331	8-729-901-00	TRANSISTOR DTC124EK		R347	1-216-073-00	METAL GLAZE	10K 5%	1/10W			
				R348	1-216-089-00	METAL GLAZE	47K 5%	1/10W			
				R349	1-216-045-00	METAL GLAZE	680 5%	1/10W			
								(KV-X2141D/KV-X2541D)			
				R350	1-216-045-00	METAL GLAZE	680 5%	1/10W			
				R351	1-216-033-00	METAL GLAZE	220 5%	1/10W			
				R354	1-216-033-00	METAL GLAZE	220 5%	1/10W			
								(KV-X2141D/KV-X2541D)			
								(KV-X2141D/KV-X2541D)			

B	F	A
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The components identified by  
grading and marked **▲** are critical  
for safety.  
Replace only with part number  
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK			
R355	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R1305	1-216-001-00	METAL GLAZE	10 5% 1/10W		
R356	1-216-069-00	METAL GLAZE	6.8K 5%	1/10W	R1307	1-216-037-00	METAL GLAZE	330 5% 1/10W		
R357	1-216-033-00	METAL GLAZE	220 5%	1/10W (KV-X2941D)	R1308	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W (KV-X2941D)		
R358	1-216-033-00	METAL GLAZE	220 5%	1/10W	R1309	1-216-295-00	METAL GLAZE	0 5% 1/10W (KV-X2141D/KV-X2541D)		
R359	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R1309	1-216-037-00	METAL GLAZE	330 5% 1/10W		
R360	1-216-089-00	METAL GLAZE	47K 5%	1/10W	< VARIABLE RESISTOR >					
R361	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	RV331	1-241-627-11	RES, ADJ, CARBON 1K			
R363	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W	X331	1-567-307-11	OSCILLATOR, CRYSTAL			
R364	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W	X332	1-567-131-00	OSCILLATOR, CRYSTAL			
R365	1-216-047-00	METAL GLAZE	820 5%	1/10W	*****					
R366	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W	*A-1624-007-A F BOARD *****					
R367	1-216-033-00	METAL GLAZE	220 5%	1/10W	*4-341-752-01 EYELET					
R370	1-216-033-00	METAL GLAZE	220 5%	1/10W	< CONNECTOR >					
R372	1-216-023-00	METAL GLAZE	82 5%	1/10W	F61	*1-580-844-11	PIN, CONNECTOR (POWER)			
R376	1-249-429-11	CARBON	10K 5%	1/4W	F62	*1-580-844-11	PIN, CONNECTOR (POWER)			
R377	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W (KV-X2941D)	< FUSE >					
R378	1-216-097-00	METAL GLAZE	100K 5%	1/10W	F1601 ▲ 1-576-231-21	FUSE (H.B.C.)	4A 250V			
R379	1-216-089-00	METAL GLAZE	47K 5%	1/10W	1-533-230-11 HOLDER, FUSE					
R380	1-216-071-00	METAL GLAZE	8.2K 5%	1/10W	< SWITCH >					
R381	1-216-093-00	METAL GLAZE	68K 5%	1/10W	S1701 ▲ 1-571-433-12	SWITCH, PUSH (AC POWER)				
R382	1-216-105-00	METAL GLAZE	220K 5%	1/10W (KV-X2541D/KV-X2941D)	*****					
R383	1-216-115-00	METAL GLAZE	560K 5%	1/10W	*A-1632-022-A A BOARD, COMPLETE (KV-X2141D/KV-X2541D) *****					
R384	1-216-029-00	METAL GLAZE	150 5%	1/10W	*A-1632-094-A A BOARD, COMPLETE (KV-X2941D) *****					
R385	1-216-085-00	METAL GLAZE	33K 5%	1/10W	1-404-801-11 TRAP, CERAMIC					
R386	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W (KV-X2941D)	< CONNECTOR >					
R387	1-216-049-00	METAL GLAZE	1K 5%	1/10W	A11	1-565-393-11	CONNECTOR, BOARD TO BOARD			
R388	1-216-049-00	METAL GLAZE	1K 5%	1/10W	A12	1-565-393-11	CONNECTOR, BOARD TO BOARD			
R389	1-216-101-00	METAL GLAZE	150K 5%	1/10W	A13	1-565-503-11	CONNECTOR, BOARD TO BOARD 12P			
R390	1-216-025-00	METAL GLAZE	100 5%	1/10W (KV-X2941D)	A16	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
R391	1-216-033-00	METAL GLAZE	220 5%	1/10W (KV-X2141D/KV-X2541D)	A17	1-564-886-11	PLUG, CONNECTOR 9P			
R392	1-216-021-00	METAL GLAZE	68 5%	1/10W	A19	1-564-881-11	PLUG, CONNECTOR 4P			
R393	1-216-021-00	METAL GLAZE	68 5%	1/10W	< CAPACITOR >					
R394	1-216-021-00	METAL GLAZE	68 5%	1/10W	C101	1-126-233-11	ELECT	22MF 20% 50V		
R395	1-216-214-00	METAL GLAZE	4.7K 5%	1/8W	C102	1-126-103-11	ELECT	470MF 20% 16V		
R396	1-216-041-00	METAL GLAZE	470 5%	1/10W	C104	1-124-910-11	ELECT	47MF 20% 50V		
R398	1-216-081-00	METAL GLAZE	22K 5%	1/10W	C106	1-126-233-11	ELECT	22MF 20% 50V		
R401	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W	C108	1-136-165-00	FILM	0.1MF 5% 50V		
R402	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W	C109	1-163-133-00	CERAMIC CHIP	470PF 5% 50V		
R403	1-216-025-00	METAL GLAZE	100 5%	1/10W	C111	1-124-925-11	ELECT	2.2MF 20% 50V		
R404	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W	C115	1-124-925-11	ELECT	2.2MF 20% 50V		
R405	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	C127	1-124-122-11	ELECT	100MF 20% 50V		
R406	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	C128	1-124-910-11	ELECT	47MF 20% 50V		
R407	1-216-047-00	METAL GLAZE	820 5%	1/10W	C129	1-124-910-11	ELECT	47MF 20% 50V		
R410	1-216-184-00	METAL GLAZE	270 5%	1/8W						
R412	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W						
R1301	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W						
R1302	1-216-089-00	METAL GLAZE	47K 5%	1/10W (KV-X2941D)						
R1303	1-216-089-00	METAL GLAZE	47K 5%	1/10W (KV-X2941D)						
R1304	1-216-097-00	METAL GLAZE	100K 5%	1/10W (KV-X2941D)						

**A C**

REF.NO.	PART NO.	DESCRIPTION	REMARK
C138	1-136-165-00	FILM 0.1MF	5% 50V
C171	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C172	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C177	1-102-074-00	CERAMIC 0.001MF	10% 50V
C181	1-101-004-00	CERAMIC 0.01MF	50V

< IC >

IC103 8-759-979-62 IC PCF8574

< COIL >

L100	1-410-683-31	INDUCTOR	560UH
L101	1-408-225-00	INDUCTOR	3.3UH
L102	1-408-413-00	INDUCTOR	22UH
L107	1-408-397-00	INDUCTOR	1UH

< TRANSISTOR >

Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q125	8-729-900-89	TRANSISTOR DTC144ES	
Q126	8-729-901-06	TRANSISTOR DTA144EK	
Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

JR230	1-216-295-00	METAL GLAZE	0 5%	1/10W
JR252	1-216-296-00	METAL GLAZE	0 5%	1/8W
JR253	1-216-296-00	METAL GLAZE	0 5%	1/8W
JR255	1-216-296-00	METAL GLAZE	0 5%	1/8W
JR256	1-216-296-00	METAL GLAZE	0 5%	1/8W

JR257	1-216-296-00	METAL GLAZE	0 5%	1/8W
JR258	1-216-296-00	METAL GLAZE	0 5%	1/8W

R101	1-216-025-00	METAL GLAZE	100 5%	1/10W
R105	1-216-079-00	METAL GLAZE	18K 5%	1/10W
R107	1-216-081-00	METAL GLAZE	22K 5%	1/10W
R108	1-216-079-00	METAL GLAZE	18K 5%	1/10W
R110	1-249-429-11	CARBON	10K 5%	1/4W

R111	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
R116	1-216-023-00	METAL GLAZE	82 5%	1/10W
R118	1-216-085-00	METAL GLAZE	33K 5%	1/10W
R128	1-216-027-00	METAL GLAZE	120 5%	1/10W
R129	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W

R130	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
R157	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R158	1-249-409-11	CARBON	220 5%	1/4W
R159	1-249-409-11	CARBON	220 5%	1/4W
R161	1-216-089-00	METAL GLAZE	47K 5%	1/10W

R162	1-216-095-00	METAL GLAZE	82K 5%	1/10W
R163	1-216-095-00	METAL GLAZE	82K 5%	1/10W
R164	1-216-075-00	METAL GLAZE	12K 5%	1/10W
R165	1-216-075-00	METAL GLAZE	12K 5%	1/10W
R167	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W

R168	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R169	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R181	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R182	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R193	1-216-073-00	METAL GLAZE	10K 5%	1/10W

R194	1-216-017-00	METAL GLAZE	47 5%	1/10W
R195	1-216-017-00	METAL GLAZE	47 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R196	1-216-113-00	METAL GLAZE 470K	5% 1/10W

< TUNER >  
< IF BLOCK >

VIF101 1-466-154-11 IF BLOCK (IFG-389S)

\*\*\*\*\*  
\*A-1638-014-A C BOARD, COMPLETE (KV-X2141D)  
\*\*\*\*\*  
\*A-1638-013-A C BOARD, COMPLETE (KV-X2941D)  
\*\*\*\*\*  
\*A-1638-011-A C BOARD, COMPLETE (KV-X2541D)  
\*\*\*\*\*

\*4-379-160-01 COVER (REAR LID), CV  
\*4-379-167-01 COVER (MAIN), CV

< CONNECTOR >

C71	1-506-371-00	PIN, CONNECTOR 2P	
C72	*1-568-881-51	PIN, CONNECTOR 6P	
C81	*1-568-878-51	PIN, CONNECTOR 3P	
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	

< CAPACITOR >

C703	1-102-980-00	CERAMIC 270PF	5% 50V
C704	1-102-116-00	CERAMIC 680PF	10% 50V
C705	1-102-978-00	CERAMIC 220PF	5% 50V
			(KV-X2541D/KV-X2941D)
	1-102-976-00	CERAMIC 180PF	5% 50V
			(KV-X2141D)
C706	1-102-116-00	CERAMIC 680PF	10% 50V
C707	1-162-116-00	CERAMIC 680PF	10% 2KV
C708	1-162-114-00	CERAMIC 0.0047MF	2KV
C709	1-102-116-00	CERAMIC 680PF	10% 50V
C710	1-123-947-00	ELECT 10MF	20% 250V
C711	1-101-880-00	CERAMIC 47PF	5% 50V
C712	1-102-980-00	CERAMIC 270PF	5% 50V
C714	1-124-360-00	ELECT 1000MF	20% 16V
C716	1-162-622-11	CERAMIC 330PF	10% 40V
C717	1-102-114-00	CERAMIC 470PF	10% 50V
C718	1-102-114-00	CERAMIC 470PF	10% 50V
C719	1-102-114-00	CERAMIC 470PF	10% 50V

< DIODE >

D701	8-719-110-14	DIODE RD9.1ESB3	
D702	8-719-911-19	DIODE ISS119	
D703	8-719-911-19	DIODE ISS119	
D704	8-719-911-19	DIODE ISS119	
D705	8-719-911-19	DIODE ISS119	
D706	8-719-911-19	DIODE ISS119	
D707	8-719-911-19	DIODE ISS119	
D708	8-719-911-19	DIODE ISS119	
D709	8-719-911-19	DIODE ISS119	
D710	8-719-911-19	DIODE ISS119	
D711	8-719-300-33	DIODE RU-3AM	
D713	8-719-911-19	DIODE ISS119	

The components identified by shading and marked **▲** are critical for safety.

Replace only with part number specified.

KV-X2141D/X2541D/X2941D

RM-816

**C** **D**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
<b>&lt; JACK &gt;</b>											
J701	A 1-526-990-13	SOCKET, CRT		R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W F				
<b>&lt; COIL &gt;</b>											
L704	1-408-415-00	INDUCTOR	33UH	R737	1-215-485-00	METAL	470K 1% 1/4W (KV-X2941D)				
<b>&lt; TRANSISTOR &gt;</b>											
Q702	8-729-119-78	TRANSISTOR	2SC2785-HFE	R738	1-215-491-00	METAL	820K 1% 1/4W (KV-X2541D)				
Q703	8-729-906-70	TRANSISTOR	BF871	R739	1-215-483-00	METAL	390K 1% 1/4W (KV-X2141D)				
Q704	8-729-200-17	TRANSISTOR	2SA10910	<b>&lt; VARIABLE RESISTOR &gt;</b>							
Q705	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV701	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M				
Q706	8-729-906-70	TRANSISTOR	BF871	RV702	1-230-619-11	RES, ADJ, METAL GLAZE	110M				
Q707	8-729-200-17	TRANSISTOR	2SA1091-0	RV703	1-237-749-11	RES, ADJ, CARBON	2200				
Q708	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV704	1-237-749-11	RES, ADJ, CARBON	2200				
Q709	8-729-906-70	TRANSISTOR	BF871	*****							
Q710	8-729-200-17	TRANSISTOR	2SA1091-0	A-1642-031-A	D BOARD, COMPLETE	(KV-X2541D)	*****				
<b>&lt; RESISTOR &gt;</b>											
R704	1-216-486-00	METAL OXIDE	8.2K 5%	A-1642-032-A	D BOARD, COMPLETE	(KV-X2941D)	*****				
R705	1-202-824-00	SOLID	3.3K 10%	A-1642-035-A	D BOARD, COMPLETE	(KV-X2141D)	*****				
R706	1-249-409-11	CARBON	220 5%	TP91	1-247-822-11	CARBON	430 5% 1/4W (KV-X2141D)	1-535-084-00 1P TERMINAL PIN			
R707	1-249-412-11	CARBON	390 5%	<b>&lt; CONNECTOR &gt;</b>							
				D1	*1-568-881-51	PIN, CONNECTOR	6P				
				D2	*1-568-882-51	PIN, CONNECTOR	7P				
				D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					
				D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR					
				D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)					
				D44	*1-568-881-51	PIN, CONNECTOR	6P				
				D45	*1-568-881-51	PIN, CONNECTOR	6P				
				D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)					
				D62	▲ *1-565-395-11	PIN, CONNECTOR	3P				
				D65	▲ *1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P				
				D66	▲ *1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P				
				D81	*1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P				
				D82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P				
				D83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P				
				D84	*1-580-798-11	CONNECTOR PIN (DY) 6P					
				D88	*1-568-878-51	PIN, CONNECTOR					
<b>&lt; CAPACITOR &gt;</b>											
R726	1-202-824-00	SOLID	3.3K 10%	C002	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
R727	1-249-409-11	CARBON	220 5%	C003	1-124-925-11	ELECT	2.2MF 20% 50V				
R728	1-216-347-11	METAL OXIDE	0.68 5%	C004	1-124-120-11	ELECT	220MF 20% 16V				
R729	1-249-416-11	CARBON	820 5%	C005	1-124-903-11	ELECT	1MF 20% 50V				
R730	1-249-401-11	CARBON	47 5%	C008	1-163-117-00	CERAMIC CHIP	100PF 5% 50V				
R731	1-249-423-11	CARBON	3.3K 5%	C009	1-163-117-00	CERAMIC CHIP	100PF 5% 50V				
R732	1-249-415-11	CARBON	680 5%	C010	1-124-120-11	ELECT	220MF 20% 16V				
R733	1-249-415-11	CARBON	680 5%	C011	1-163-031-11	CERAMIC CHIP	0.01MF 50V				
R734	1-249-405-11	CARBON	100 5%								
R735	1-215-493-00	METAL	1M 1%								

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D

REF.NO.	PART NO.	DESCRIPTION		REMARK		REF.NO.	PART NO.	DESCRIPTION		REMARK	
C013	1-136-165-00	FILM	0.1MF	5%	50V	C531	1-124-190-00	ELECT	680MF	10%	25V
C014	1-136-165-00	FILM	0.1MF	5%	50V	C532	1-124-122-11	ELECT	100MF	20%	50V
C015	1-124-902-00	ELECT	0.47MF	20%	50V	C533	1-108-702-11	MYLAR	0.068MF	10%	100V
C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C534	1-124-120-11	ELECT	220MF	20%	16V
C017	1-136-165-00	FILM	0.1MF	5%	50V	C536	1-131-365-00	TANTALUM	10MF	10%	16V
C018	1-163-127-00	CERAMIC CHIP	270PF	5%	50V					(KV-X2541D/KV-X2941D)	
C019	1-106-383-00	MYLAR	0.047MF	10%	100V		1-131-363-00	TANTALUM	4.7MF	10%	16V
										(KV-X2141D)	
C021	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C537	1-124-903-11	ELECT	1MF	20%	50V
C023	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C538	1-137-410-11	FILM	0.001MF	10%	100V
C024	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C027	1-124-910-11	ELECT	47MF	20%	50V	C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C030	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C592	1-124-122-11	ELECT	100MF	20%	50V
C031	1-163-081-00	CERAMIC CHIP	0.22MF		25V	C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C032	1-163-081-00	CERAMIC CHIP	0.22MF		25V	C601	1-162-599-12	CERAMIC	0.0047MF		250V
C033	1-163-181-00	CERAMIC CHIP	100PF	5%	50V	C602	▲ 1-161-964-61	CERAMIC	0.0047MF		250V
C034	1-124-907-11	ELECT	10MF	20%	50V	C603	▲ 1-161-964-61	CERAMIC	0.0047MF		250V
C251	1-124-903-11	ELECT	1MF	20%	50V	C604	▲ 1-125-318-00	ELECT(BLOCK)	220MF	20%	400V
C252	1-126-233-11	ELECT	22MF	20%	50V	C605	1-124-484-11	ELECT	220MF	20%	35V
C253	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C254	1-136-165-00	FILM	0.1MF	5%	50V	C607	1-136-177-00	FILM	1MF	5%	50V
C255	1-124-636-00	ELECT	3300MF	20%	25V	C608	1-124-927-11	ELECT	4.7MF	20%	50V
C261	1-124-903-11	ELECT	1MF	20%	50V	C611	1-124-910-11	ELECT	47MF	20%	50V
C262	1-126-233-11	ELECT	22MF	20%	50V	C612	1-137-410-11	FILM	0.001MF	10%	100V
C263	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C613	1-136-539-11	FILM	0.0022MF	3%	2KV
C264	1-136-165-00	FILM	0.1MF	5%	50V	C614	1-102-030-00	CERAMIC	330PF	10%	500V
C265	1-124-564-11	ELECT	4700MF	20%	25V	C615	1-128-142-11	ELECT	1500MF	20%	25V
C270	1-130-785-11	MYLAR	0.47MF	10%	100V	C616	1-102-030-00	CERAMIC	330PF	10%	500V
C274	1-130-785-11	MYLAR	0.47MF	10%	100V	C617	1-124-122-11	ELECT	100MF	20%	50V
C501	1-124-927-11	ELECT	4.7MF	20%	50V		1-124-120-11	ELECT	220MF	20%	(KV-X2541D/KV-X2941D)
C502	1-124-927-11	ELECT	4.7MF	20%	50V					(KV-X2141D)	
C503	1-136-204-11	MYLAR	0.015MF	10%	400V	C618	1-162-115-00	CERAMIC	330PF	10%	2KV
C504	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C619	1-128-320-11	ELECT	2200MF	20%	16V
C505	1-137-365-11	FILM	0.0015MF	5%	50V	C620	1-136-173-00	FILM	0.47MF	5%	50V
C506	1-106-375-12	MYLAR	0.022MF	10%	250V		1-137-028-11	FILM	1MF	10%	(KV-X2541D/KV-X2941D)
C507	1-136-171-00	FILM	0.33MF	5%	50V					(KV-X2141D)	
C508	1-106-375-12	MYLAR	0.022MF	10%	250V	C509	1-136-165-00	FILM	0.1MF	5%	50V
C510	1-161-959-00	CERAMIC	22PF	10%	500V	C621	1-124-347-00	ELECT	100MF	20%	160V
C511	1-137-413-11	FILM	0.0033MF	10%	100V	C622	1-128-320-11	ELECT	2200MF	20%	16V
C512	1-136-165-00	FILM	0.1MF	5%	50V	C623	1-124-910-11	ELECT	47MF	20%	50V
C513	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	C624	1-124-122-11	ELECT	100MF	20%	50V
C514	1-136-169-00	FILM	0.22MF	5%	50V	C625	1-124-360-00	ELECT	1000MF	20%	16V
C515	1-124-903-11	ELECT	1MF	20%	50V	C626	1-124-907-11	ELECT	10MF	20%	50V
C516	1-137-410-11	FILM	0.001MF	10%	100V	C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C517	1-124-252-00	ELECT	0.33MF	20%	50V	C631	1-124-927-11	ELECT	4.7MF	20%	50V
C518	1-124-902-00	ELECT	0.47MF	20%	50V	C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C519	1-136-171-00	FILM	0.33MF	5%	50V	C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
										(KV-X2941D)	
	1-136-173-00	FILM	0.47MF	5%	50V	C801	1-126-105-11	ELECT	1000MF	20%	35V
						C802	1-102-030-00	CERAMIC	330PF	10%	50V
						C804	1-123-948-00	ELECT	22MF	20%	25V
C520	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C521	1-136-165-00	FILM	0.1MF	5%	50V	C806	1-136-165-00	FILM	0.1MF	5%	50V
C522	1-124-122-11	ELECT	100MF	20%	50V	C807	1-106-395-00	MYLAR	0.15MF	10%	20V
C523	1-137-410-11	FILM	0.001MF	10%	100V	C810	1-123-024-21	ELECT	33MF		160V
C524	1-137-367-11	FILM	0.0033MF	5%	50V	C811	1-136-113-00	FILM	2MF	5%	20V
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V					(KV-X2541D/KV-X2941D)	
C526	1-163-101-00	CERAMIC CHIP	22PF	5%	50V		1-136-111-00	FILM	1MF	5%	20V
										(KV-X2141D)	
	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C812	1-124-634-11	ELECT	1MF	20%	25V
										(KV-X2141D/KV-X2541D)	
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	C813	1-102-212-00	CERAMIC	820PF	10%	50V

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**D**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C814	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D607	8-719-300-33	DIODE RU-3AM
C815	1-136-540-11	FILM	0.82MF	5%	200V	D608	8-719-300-33	DIODE RU-3AM
				(KV-X2941D)		D609	8-719-982-24	DIODE MTZJ-33A
	1-136-111-00	FILM	1MF	5%	200V	D610	8-719-300-59	DIODE CTU-12S
				(KV-X2141D/KV-X2541D)		D611	8-719-900-26	DIODE ERD29-08J
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV	D612	8-719-300-59	DIODE CTU-12S
				(KV-X2941D)		D613	8-719-302-43	DIODE EL1Z
	1-136-565-11	FILM	0.015MF	3%	1.4KV	D614	8-719-302-43	DIODE EL1Z
				(KV-X2541D)		D616	8-719-109-93	DIODE MTZJ-6.2B
	1-136-549-11	FILM	0.0106MF	3%	1.4KV	D617	8-719-911-19	DIODE ISS119
				(KV-X2141D)		D618	8-719-109-89	DIODE RD5.6ESB2
C818	1-136-759-11	FILM	0.039MF	10%	630V	D619	8-719-982-24	DIODE MTZJ-33A
C819	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D620	8-719-800-76	DIODE ISS226
C820	1-136-562-11	MYLAR	0.0082MF	10%	400V	D621	8-719-982-24	DIODE MTZJ-33A
C821	1-162-134-11	CERAMIC	470PF	10%	2KV	D622	8-719-911-19	DIODE ISS119
				(KV-X2941D)		D623	8-719-911-19	DIODE ISS119
C822	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	D624	8-719-911-19	DIODE ISS119
C823	1-137-043-11	FILM	0.0047MF	10%	400V	D630	8-719-921-91	DIODE MTZJ-15A
C824	1-102-212-00	CERAMIC	820PF	10%	500V	D801	8-719-300-33	DIODE RU-3AM
C825	1-106-375-12	MYLAR	0.022MF	10%	250V	D802	8-719-300-33	DIODE RU-3AM
C1601 ▲	1-136-518-11	FILM	0.33MF	20%	300V	D803	8-719-976-64	DIODE RGP02-17
C1602 ▲	1-136-519-11	FILM	0.47MF	20%	300V	D804	8-719-911-55	DIODE U05G
C1603 ▲	1-164-246-61	CERAMIC	0.0022MF	20%	400V	D805	8-719-911-55	DIODE U05G
C1605 ▲	1-164-246-61	CERAMIC	0.0022MF	20%	400V	D806	8-719-945-80	DIODE ERC06-15S
C1607 ▲	1-161-964-61	CERAMIC	0.0047MF		250V	D807	8-719-945-80	DIODE ERC06-15S
						D808	8-719-900-26	DIODE ERD29-08J
							8-719-928-08	DIODE ERD-28-08S
								(KV-X2541D/KV-X2941D)
								(KV-X2541D/KV-X2941D)
								(KV-X2141D)
< FILTER >								
CF001	1-577-364-11	VIBRATOR, CERAMIC						< IC >
CF501	1-567-888-11	OSCILLATOR, CERAMIC						
< DIODE >								
D001	8-719-109-97	DIODE RD6.8ESB2						
D003	8-719-911-19	DIODE ISS119						
D005	8-719-109-89	DIODE RD5.6ESB2						
D006	8-719-982-24	DIODE MTZJ-33A						
D007	8-719-982-08	DIODE MTZJ-3.9B						
D009	8-719-109-89	DIODE RD5.6ESB2						
D010	8-719-109-93	DIODE MTZJ-6.2B						
D011	8-719-109-93	DIODE MTZJ-6.2B						
D012	8-719-911-19	DIODE ISS119						
D013	8-719-109-97	DIODE RD6.8ESB2						
D015	8-719-109-97	DIODE RD6.8ESB2						
D271	8-719-921-88	DIODE MTZJ-13B						
D272	8-719-911-19	DIODE ISS119						
D501	8-719-911-19	DIODE ISS119						
D504	8-719-911-55	DIODE U05G						
D506	8-719-800-76	DIODE ISS226	(KV-X2141D/KV-X2541D)					
D508	8-719-911-19	DIODE ISS119						
D509	8-719-911-19	DIODE ISS119	(KV-X2541D/KV-X2941D)					
D511	8-719-911-55	DIODE U05G						
D512	8-719-911-55	DIODE U05G						
D513	8-719-010-34	DIODE UZ-4.7BSC						
D514	8-719-911-19	DIODE ISS119	(KV-X2941D)					
D515	8-719-911-19	DIODE ISS119	(KV-X2941D)					
D601	8-719-510-63	DIODE D4SB60L-F						
D602	8-719-300-33	DIODE RU-3AM						
D603	8-719-911-55	DIODE U05G						
D604	8-719-911-55	DIODE U05G						
D605	8-719-911-55	DIODE U05G						
D606	8-719-300-33	DIODE RU-3AM						
< COIL >								
L501	1-408-225-00	INDUCTOR	3.3UH					
L601	1-420-872-00	COIL, AIR CORE						
L602	1-410-396-41	FERRITE BEAD INDUCTOR						
L603	1-410-396-41	FERRITE BEAD INDUCTOR						
L604	1-410-671-31	INDUCTOR	47UH					
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)						
L606	1-412-529-11	INDUCTOR	22UH					
L607	1-410-671-31	INDUCTOR	47UH					
L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-X2141D)						
L803	1-459-104-00	COIL, WITH CORE						
L804	1-408-239-00	INDUCTOR	4.7MMH					
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	(KV-X2541D)					
	1-059-755-11	COIL, HORIZONTAL LINEARITY	(KV-X2141D)					
	1-459-652-12	HLC	(KV-X2141D)					
L806	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	(KV-X2941D)					
	1-459-111-00	COIL, DRAM CORE (CDI)	(KV-X2541D)					
	1-459-115-00	COIL, DCC-H	(KV-X2141D)					

The components identified by shading and marked **▲** are critical for safety.  
Replace only with part number specified.

**D**

REF.NO.	PART NO.	DESCRIPTION	REMARK
L809	1-420-872-00	COIL, AIR CORE	
L810	1-421-794-21	TRANSFORMER, FERRITE (PMT)	(KV-X2941D)
	1-421-982-11	P.M.C	(KV-X2541D)
	1-459-390-00	COIL (WITH CORE)	(KV-X2141D)
		< TRANSFORMER >	

LF1601	▲ 1-421-866-12	LFT	
LF1602	▲ 1-421-776-11	LFT	
LF1603	▲ 1-421-862-11	LFT	

< IC LINK >

PS601	▲ 1-532-984-91	LINK, IC 2A	(ICP-N50)
PS602	▲ 1-532-984-91	LINK, IC 2A	(ICP-N50)
PS603	▲ 1-532-679-91	LINK, IC 0.6A	(ICP-N15)
PS604	▲ 1-532-984-91	LINK, IC 2A	(ICP-N50)

< TRANSISTOR >

Q001	8-729-901-01	TRANSISTOR DTC144EK	
Q002	8-729-901-01	TRANSISTOR DTC144EK	
Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q005	8-729-901-01	TRANSISTOR DTC144EK	

Q006	8-729-901-01	TRANSISTOR DTC144EK	
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	

Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q598	8-729-216-22	TRANSISTOR 2SA1162-G	
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	

Q603	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	

Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-320-62	TRANSISTOR 2SD789-34	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	

< RESISTOR >

JR1	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR3	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR4	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR7	1-216-296-00	METAL GLAZE	0 5% 1/8W

R001	1-216-041-00	METAL GLAZE	470 5% 1/10W
R002	1-216-041-00	METAL GLAZE	470 5% 1/10W
R003	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R004	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R005	1-216-081-00	METAL GLAZE	22K 5% 1/10W

R006	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R007	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R008	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R009	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R010	1-216-041-00	METAL GLAZE	470 5% 1/10W
R012	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R013	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R014	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R015	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R016	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R017	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R018	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R019	1-216-025-00	METAL GLAZE	100 5% 1/10W
R020	1-216-025-00	METAL GLAZE	100 5% 1/10W
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R022	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R024	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R025	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-182-00	METAL GLAZE	220 5% 1/8W
R027	1-216-025-00	METAL GLAZE	100 5% 1/10W
R028	1-216-025-00	METAL GLAZE	100 5% 1/10W
R029	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R030	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R031	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R032	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R033	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R034	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R035	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R036	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R037	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R038	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R039	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R040	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R041	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R042	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R043	1-216-041-00	METAL GLAZE	470 5% 1/10W
R044	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R045	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R046	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R047	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R048	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R049	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R050	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R051	1-216-041-00	METAL GLAZE	470 5% 1/10W
R052	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R054	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R055	1-216-037-00	METAL GLAZE	330 5% 1/10W
R056	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R057	1-216-025-00	METAL GLAZE	100 5% 1/10W
R058	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R059	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R060	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R061	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R063	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R064	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R065	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R066	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R067	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R068	1-216-174-00	METAL GLAZE	100 5% 1/8W
R069	1-216-174-00	METAL GLAZE	100 5% 1/8W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R070	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R520	1-216-037-00	METAL GLAZE	330 5% 1/10W
R071	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R521	1-216-025-00	METAL GLAZE	100 5% 1/10W
R072	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R522	1-215-473-00	METAL	150K 1% 1/4W (KV-X2941D)
R073	1-216-073-00	METAL GLAZE	10K 5% 1/10W		1-215-469-00	METAL	100K 1% 1/4W (KV-X2141D/KV-X2541D)
R075	1-216-041-00	METAL GLAZE	470 5% 1/10W	R523	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W (KV-X2941D)
R076	1-216-073-00	METAL GLAZE	10K 5% 1/10W		1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-X2141D/KV-X2541D)
R077	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R078	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R525	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-X2141D/KV-X2541D)
R079	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R526	1-249-409-11	CARBON	220 5% 1/4W F
R080	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R528	1-216-031-00	METAL GLAZE	180 5% 1/10W
R083	1-216-025-00	METAL GLAZE	100 5% 1/10W	R529	1-216-077-00	METAL GLAZE	15K 5% 1/10W (KV-X2941D)
R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W		1-216-069-00	METAL GLAZE	6.8K 5% 1/10W (KV-X2141D/KV-X2541D)
R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R530	1-249-448-11	CARBON	1.2 5% 1/4W F
R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W (KV-X2541D/KV-X2941D)
R087	1-216-035-00	METAL GLAZE	270 5% 1/10W	R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-X2541D/KV-X2941D)
R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R533	1-216-295-00	METAL GLAZE	0 5% 1/10W (KV-X2541D/KV-X2941D)
R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W (KV-X2141D/KV-X2941D)		1-216-031-00	METAL GLAZE	180 5% 1/10W (KV-X2141D)
R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W
R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R535	1-249-749-00	CARBON	2.2M 5% 1/4W (KV-X2541D/KV-X2941D)
R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W		1-249-753-15	CARBON	4.7M 5% 1/4W (KV-X2141D)
R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R252	1-216-039-00	METAL GLAZE	390 5% 1/10W	R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R254	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R540	1-216-013-00	METAL GLAZE	33 5% 1/10W
R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W
R258	1-215-869-11	METAL OXIDE	1K 5% 1W F	R543	1-249-451-11	CARBON	2.2 5% 1/4W
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R544	1-247-745-11	CARBON	330 5% 1/2W
R262	1-216-039-00	METAL GLAZE	390 5% 1/10W	R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W (KV-X2541D/KV-X2941D)
R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W		1-216-689-11	METAL GLAZE	39K 5% 1/10W (KV-X2141D)
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W (KV-X2541D/KV-X2941D)
R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W		1-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-X2141D)
R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R268	1-215-869-11	METAL OXIDE	1K 5% 1W F	R548	1-216-349-00	METAL OXIDE	1 5% 1WF (KV-X2541D/KV-X2941D)
R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		1-216-350-11	METAL OXIDE	1.2 5% 1WF (KV-X2141D)
R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R549	1-216-454-11	METAL OXIDE	390 5% 2WF (KV-X2541D/KV-X2941D)
R271	1-216-045-00	METAL GLAZE	680 5% 1/10W		1-215-890-11	METAL OXIDE	470 5% 2WF (KV-X2141D)
R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R552	1-216-433-00	METAL OXIDE	1.2K 5% 1W (KV-X2141D)
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W				
R504	1-249-420-11	CARBON	1.8K 5% 1/4W				
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W				
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W				

The components identified by shading and marked  are critical for safety.  
Replace only with part number specified.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK		REF.NO.	PART NO.	DESCRIPTION	REMARK			
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	R651	1-216-025-00	METAL GLAZE	100	5%	1/10W
R554	1-216-037-00	METAL GLAZE	330	5%	1/10W	R653	1-205-758-11	WIREWOUND	100	10%	10W F
R555	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	R802	1-249-443-11	CARBON	0.47	5%	1/4W F
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W	R805	1-249-448-11	CARBON	1.2	5%	1/4W F
R557	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R806	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R558	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R807	1-217-778-11	FUSIBLE	1K	5%	1W F
R559	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R809	1-202-821-11	SOLID	1.8K	10%	1/2W
R560	1-216-037-00	METAL GLAZE	330	5%	1/10W	R810	1-202-818-00	SOLID	1K	10%	1/2W
R561	1-216-107-00	METAL GLAZE	270K	5%	1/10W	R811	1-215-882-00	METAL OXIDE	22	5%	2W F
			(KV-X2941D)				1-218-863-11	METAL OXIDE	100	5%	1W
R570	1-216-045-00	METAL GLAZE	680	5%	1/10W	R812	1-247-281-00	CARBON	51K	5%	1/2W
			(KV-X2941D)				1-249-494-11	CARBON	68K	5%	1/2W
R591	1-216-047-00	METAL GLAZE	820	5%	1/10W		1-247-285-00	CARBON	75K	5%	1/2W
R592	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R815	1-215-884-11	METAL OXIDE	47	5%	2W F
R593	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R816	1-215-868-00	METAL OXIDE	680	5%	1W F
R594	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	R817	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R597	1-216-041-00	METAL GLAZE	470	5%	1/10W	R820	1-249-403-11	CARBON	68	5%	1/4W
R598	1-215-901-00	METAL OXIDE	33K	5%	2W F	R821	1-247-725-11	CARBON	10K	5%	1/4W F
R600	1-249-381-11	CARBON	1	5%	1/4W	R822	1-217-778-11	FUSIBLE	1K	5%	1W F
			(KV-X2541D/KV-X2941D)				1-216-345-11	METAL OXIDE	0.47	5%	1W F
R601	1-216-353-00	METAL OXIDE	2.2	5%	1W F						(KV-X2541D/KV-X2941D)
R603	1-216-469-11	METAL OXIDE	12	5%	3W F	R826	1-216-097-00	METAL GLAZE	100K	5%	1/10W
			(KV-X2541D/KV-X2941D)				1-216-349-00	METAL OXIDE	1	5%	1W F
	1-215-906-11	METAL OXIDE	15	5%	3W F	R827	1-216-073-00	METAL GLAZE	10K	5%	1/10W
			(KV-X2141D)				1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R604	1-216-025-00	METAL GLAZE	100	5%	1/10W	R828	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R605	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R829	1-249-451-11	CARBON	2.2	5%	1/4W
R606	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R831	1-249-465-11	CARBON	47K	5%	1/4W
R607	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R1601	▲ 1-244-945-91	CARBON	1M	5%	1/2W
			(KV-X2941D)				1-217-328-11	WIREWOUND	2.7	10%	7W F
	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1602	1-249-465-11	CARBON	47K	5%	1/4W
			(KV-X2141D/KV-X2541D)				1-216-073-00	METAL GLAZE	10K	5%	1/10W
R608	1-216-488-11	METAL OXIDE	18K	5%	3W F	R503	1-216-001-00	METAL GLAZE	10	5%	1/10W
R609	1-216-007-00	METAL GLAZE	18	5%	1/10W	R504	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R610	1-244-941-00	CARBON	680K	5%	1/2W	R505	1-216-001-00	METAL GLAZE	10	5%	1/10W
R611	1-216-015-00	METAL GLAZE	39	5%	1/10W	R506	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R612	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R1605A	▲ 1-218-265-91	METAL GLAZE	8.2M	5%	1W
R613	1-216-097-00	METAL GLAZE	100K	5%	1/10W						< VARIABLE RESISTOR >
R614	1-205-758-11	WIREWOUND	100	10%	10W F	RV501	1-241-628-11	RES, ADJ, CARBON	2.2K		
R616	1-216-099-00	METAL GLAZE	120K	5%	1/10W	RV502	1-241-630-11	RES, ADJ, CARBON	10K		
R617	1-216-037-00	METAL GLAZE	330	5%	1/10W	RV601	1-238-011-11	RES, ADJ, CARBON	470		
R618	1-216-431-11	METAL OXIDE	560	5%	1W F						< SPARK GAP >
R619	1-216-073-00	METAL GLAZE	10K	5%	1/10W	SG801	1-519-422-11	GAP, SPARK			
R620	1-216-081-00	METAL GLAZE	22K	5%	1/10W						< TRANSFORMER >
R621	1-216-077-00	METAL GLAZE	15K	5%	1/10W	T601	▲ 1-450-037-11	S.R.T			
R622	1-216-073-00	METAL GLAZE	10K	5%	1/10W		▲ 1-450-038-11	S.R.T			
R623	1-216-081-00	METAL GLAZE	22K	5%	1/10W	T602	▲ 1-424-277-11	TRANSFORMER, TRIGGER PULSE			
R624	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	T801	1-437-090-00	HDT			
R625	1-215-865-11	METAL OXIDE	220	5%	1W F	T802	▲ 1-439-416-51	TRANSFORMER ASSY, FLYBACK UX-1651			
R626	1-216-037-00	METAL GLAZE	330	5%	1/10W						
R628	1-216-001-00	METAL GLAZE	10	5%	1/10W						
R629	1-216-037-00	METAL GLAZE	330	5%	1/10W						
R631	1-216-465-11	METAL OXIDE	27K	5%	2W F						
			(KV-X2141D/KV-X2541D)								
R633	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
R634	1-216-430-11	METAL OXIDE	390	5%	1W F						
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W						
R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W						
R643	1-217-189-21	WIREWOUND	0.12	5%	2W F						
			(KV-X2541D/KV-X2941D)								
	1-217-190-21	WIRE WOUND	0.15	5%	2W F						
			(KV-X2141D)								

The components identified by shading and marked **▲** are critical for safety.  
Replace only with part number specified.

**KV-X2141D/X2541D/X2941D**

RM-816

**VM D V**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
<b>&lt; THERMISTOR &gt;</b>									
THP601 <b>▲</b> 1-808-059-32 THERMISTOR, POSITIVE									
*****									
*1-634-193-11 VM BOARD (KV-X2941D ONLY)									
<b>&lt; CONNECTOR &gt;</b>									
VH73	*1-568-878-51	PIN, CONNECTOR 3P			C6	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
VH88	*1-568-878-51	PIN, CONNECTOR 3P			C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
<b>&lt; CAPACITOR &gt;</b>									
C751	1-101-361-00	CERAMIC	150PF	5%	50V	C3	1-124-120-11	ELECT 220MF	20% 16V
C752	1-137-462-11	FILM	0.018MF	5%	100V	C4	1-163-077-00	CERAMIC CHIP 0.1MF	50V
C753	1-106-367-00	MYLAR	0.01MF	10%	400V	C5	1-124-120-11	ELECT 220MF	20% 16V
C754	1-102-980-00	CERAMIC	270PF	5%	50V				
C757	1-108-692-11	MYLAR	0.01MF	10%	200V				
C759	1-124-907-11	ELECT	10MF	20%	50V	C14	1-124-927-11	ELECT 4.7MF	20% 50V
C760	1-124-917-11	ELECT	33MF	20%	50V	C15	1-126-233-11	ELECT 22MF	20% 50V
C761	1-101-006-00	CERAMIC	0.047MF		50V	C16	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C762	1-106-367-00	MYLAR	0.01MF	10%	400V	C17	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
						C18	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
<b>&lt; COIL &gt;</b>									
L751	1-408-413-00	INDUCTOR	22UH			C26	1-163-038-00	CERAMIC CHIP 0.1MF	25V
L770	1-410-665-31	INDUCTOR	15UH			C27	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
<b>&lt; TRANSISTOR &gt;</b>									
Q751	8-729-119-78	TRANSISTOR	2SC2785-HFE		D1	8-719-105-91	DIODE RD5.6M-B2		
Q752	8-729-119-78	TRANSISTOR	2SC2785-HFE		D3	8-719-914-44	DIODE DAP202K		
Q753	8-729-140-97	TRANSISTOR	2SB734-34		D4	8-719-400-18	DIODE MA152WK		
Q754	8-729-140-96	TRANSISTOR	2SD774-34		D5	8-719-914-44	DIODE DAP202K		
<b>&lt; RESISTOR &gt;</b>									
R751	1-249-418-11	CARBON	1.2K	5%	1/4W	D6	8-719-400-18	DIODE MA152WK	
R752	1-249-426-11	CARBON	5.6K	5%	1/4W	D7	8-719-105-52	DIODE RD3.6M-B2	
R753	1-249-414-11	CARBON	560	5%	1/4W	D9	8-719-106-17	DIODE RD6.8M-B2	
R754	1-249-434-11	CARBON	27K	5%	1/4W				
R755	1-249-405-11	CARBON	100	5%	1/4W				
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	<b>&lt; IC &gt;</b>			
R757	1-249-405-11	CARBON	100	5%	1/4W	IC1	8-759-039-18	IC SDA20162-B002	
R758	1-249-409-11	CARBON	220	5%	1/4W	IC2	8-759-045-54	IC SAA5246P/E/M4A	
R760	1-249-411-11	CARBON	330	5%	1/4W	IC3	8-759-510-49	IC FCB61C65L-70P	
R761	1-249-429-11	CARBON	10K	5%	1/4W				
R762	1-247-895-00	CARBON	470K	5%	1/4W	<b>&lt; COIL &gt;</b>			
R763	1-249-429-11	CARBON	10K	5%	1/4W	L1	1-408-403-00	INDUCTOR 3.3UH	
R764	1-249-389-11	CARBON	4.7	5%	1/4W F	L2	1-408-407-00	INDUCTOR 6.8UH	
R765	1-249-389-11	CARBON	4.7	5%	1/4W F	L3	1-408-407-00	INDUCTOR 6.8UH	
R766	1-247-753-11	CARBON	1.2K	5%	1/2W	L4	1-408-407-00	INDUCTOR 6.8UH	
R767	1-247-751-11	CARBON	820	5%	1/2W	<b>&lt; IC LINK &gt;</b>			
R768	1-215-887-00	METAL OXIDE	150	5%	2W F	PS1	<b>▲</b> 1-532-679-91	LINK, IC (ICP-N15) 0.6A	
R769	1-212-889-00	FUSIBLE	220	5%	1/4W F				
*****									
A-1645-013-A V BOARD, COMPLETE									
*****									
<b>&lt; CONNECTOR &gt;</b>									
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD			Q1	8-729-900-53	TRANSISTOR DTC114EK		
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD			Q2	8-729-920-92	TRANSISTOR 2SD2096-EF		
					Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
					Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
					Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6		
					Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6		
					Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6		
					Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
<b>&lt; RESISTOR &gt;</b>									
JR01	1-216-295-00	METAL GLAZE	0	5%	1/10W				

**H2**    **H1**    **V**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
JR02	1-216-295-00	METAL GLAZE	0 5%	1/10W	R49	1-216-049-00	METAL GLAZE	1K 5%	1/10W
JR03	1-216-295-00	METAL GLAZE	0 5%	1/10W	R50	1-216-296-00	METAL GLAZE	0 5%	1/8W
JR08	1-216-295-00	METAL GLAZE	0 5%	1/10W					
JR09	1-216-295-00	METAL GLAZE	0 5%	1/10W				< VARIABLE RESISTOR >	
JR11	1-216-295-00	METAL GLAZE	0 5%	1/10W	RV1	1-241-627-11	RES, ADJ, CARBON 1K		
JR14	1-216-296-00	METAL GLAZE	0 5%	1/8W				< CRYSTAL >	
JR17	1-216-295-00	METAL GLAZE	0 5%	1/10W	X1	1-579-266-31	CRYSTAL VIBRATOR		
JR18	1-216-296-00	METAL GLAZE	0 5%	1/8W	X2	1-577-364-11	VIBRATOR, CERAMIC		
JR19	1-216-296-00	METAL GLAZE	0 5%	1/8W				*****	
JR20	1-216-296-00	METAL GLAZE	0 5%	1/8W				*1-638-392-11 H2, BOARD	
JR21	1-216-296-00	METAL GLAZE	0 5%	1/8W				*****	
JR23	1-216-295-00	METAL GLAZE	0 5%	1/10W					
JR24	1-216-296-00	METAL GLAZE	0 5%	1/8W					
JR25	1-216-296-00	METAL GLAZE	0 5%	1/8W					
JR26	1-216-296-00	METAL GLAZE	0 5%	1/8W				*4-374-987-01 GUIDE, LIGHT	
JR201	1-216-295-00	METAL GLAZE	0 5%	1/10W				*4-381-686-01 BRACKET (B), LIGHT GUIDE	
JR204	1-216-295-00	METAL GLAZE	0 5%	1/10W					
JR207	1-216-295-00	METAL GLAZE	0 5%	1/10W				< CONNECTOR >	
JR208	1-216-295-00	METAL GLAZE	0 5%	1/10W	H2-2	*1-568-882-51	PIN, CONNECTOR 7P		
JR211	1-216-295-00	METAL GLAZE	0 5%	1/10W				< DIODE >	
JR213	1-216-295-00	METAL GLAZE	0 5%	1/10W	D1651	8-719-948-31	DIODE LD-201VR		
JR219	1-216-296-00	METAL GLAZE	0 5%	1/8W	D1652	*4-201-076-01	HOLDER, LED: D1651		
JR220	1-216-295-00	METAL GLAZE	0 5%	1/10W	D1654	8-719-948-31	DIODE LD-201VR		
JR223	1-216-295-00	METAL GLAZE	0 5%	1/10W		*4-201-076-01	HOLDER, LED: D1654		
R1	1-218-326-11	METAL GLAZE	470 5%	1/2W				< IC >	
R3	1-216-049-00	METAL GLAZE	1K 5%	1/10W					
R4	1-216-025-00	METAL GLAZE	100 5%	1/10W					
R5	1-216-047-00	METAL GLAZE	820 5%	1/10W					
R6	1-216-001-00	METAL GLAZE	10 5%	1/10W					
R7	1-216-083-00	METAL GLAZE	27K 5%	1/10W	IC1651	8-741-101-75	IC SBX1610-11		
R8	1-216-071-00	METAL GLAZE	8.2K 5%	1/10W				< RESISTOR >	
R9	1-216-308-00	METAL GLAZE	4.7 5%	1/10W					
R02	1-216-214-00	METAL GLAZE	4.7K 5%	1/8W	R1662	1-249-413-11	CARBON	470 5% 1/4W	
R10	1-218-325-11	METAL GLAZE	120 5%	1/4W					
R11	1-218-325-11	METAL GLAZE	120 5%	1/4W				*****	
R12	1-218-325-11	METAL GLAZE	120 5%	1/4W				*1-638-391-11 H1, BOARD	
R13	1-216-025-00	METAL GLAZE	100 5%	1/10W				*****	
R14	1-216-001-00	METAL GLAZE	10 5%	1/10W					
R15	1-216-013-00	METAL GLAZE	33 5%	1/10W				< CONNECTOR >	
R16	1-216-013-00	METAL GLAZE	33 5%	1/10W					
R17	1-216-013-00	METAL GLAZE	33 5%	1/10W	H1-1	*1-568-881-51	PIN, CONNECTOR 6P		
R18	1-216-025-00	METAL GLAZE	100 5%	1/10W	H1-02	1-569-473-11	JACK BLOCK, PIN 3P		
R19	1-216-025-00	METAL GLAZE	100 5%	1/10W	H1-4	*1-568-879-51	PIN, CONNECTOR 4P		
R20	1-216-041-00	METAL GLAZE	470 5%	1/10W	H1-05	1-562-837-11	JACK		
R21	1-216-041-00	METAL GLAZE	470 5%	1/10W	H1-23	*1-568-879-51	PIN, CONNECTOR 4P		
R22	1-216-168-00	METAL GLAZE	56 5%	1/8W	H1-43	*1-564-512-11	PLUG, CONNECTOR 9P		
R23	1-216-214-00	METAL GLAZE	4.7K 5%	1/8W				< CAPACITOR >	
R24	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W					
R25	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W					
R26	1-216-049-00	METAL GLAZE	1K 5%	1/10W	C1651	1-102-106-00	CERAMIC	100PF 10% 50V	
R27	1-216-214-00	METAL GLAZE	4.7K 5%	1/8W	C1652	1-102-106-00	CERAMIC	100PF 10% 50V	
R28	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W	C1653	1-102-074-00	CERAMIC	0.001MF 10% 50V	
R34	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	C1655	1-102-074-00	CERAMIC	0.001MF 10% 50V	
R35	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W				< RESISTOR >	
R40	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W					
R41	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R1651	1-249-413-11	CARBON	470 5% 1/4W	
R42	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R1652	1-249-413-11	CARBON	470 5% 1/4W	
R44	1-216-295-00	METAL GLAZE	0 5%	1/10W				< SWITCH >	
R46	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W					
R47	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	S1651	1-571-532-21	SWITCH, TACTIL		
				S1652	1-571-532-21	SWITCH, TACTIL			

H1

J1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
S1653	1-571-532-21	SWITCH, TACTIL		C1411	1-124-907-11	ELECT	10MF 20% 50V
*****							
A-1651-018-A	J1 BOARD, COMPLETE (KV-X2141D/KV-X2541D)			C1412	1-124-910-11	ELECT	47MF 20% 50V
A-1651-038-A	J1 BOARD, COMPLETE (KV-X2941D)			C1413	1-124-910-11	ELECT	47MF 20% 50V
*****							
< CONNECTOR >				C1414	1-124-907-11	ELECT	10MF 20% 50V
CN1401	1-565-838-11	JACK BLOCK, PIN 2P		C1415	1-136-165-00	FILM	0.1MF 5% 50V
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P		C1416	1-136-165-00	FILM	0.1MF 5% 50V
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P		C1417	1-124-120-11	ELECT	220MF 20% 16V
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P		C1418	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P		C1419	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
< CAPACITOR >							
C203	1-124-925-11	ELECT	2.2MF 20% 50V	C1426	1-124-902-00	ELECT	0.47MF 20% 50V
C205	1-124-927-11	ELECT	4.7MF 20% 50V	C1427	1-163-029-11	CERAMIC CHIP	0.0047MF 50V
C206	1-124-925-11	ELECT	2.2MF 20% 50V	C1428	1-163-029-11	CERAMIC CHIP	0.0047MF 50V
C207	1-124-927-11	ELECT	4.7MF 20% 50V	C1429	1-163-029-11	CERAMIC CHIP	0.0047MF 50V
C213	1-126-233-11	ELECT	22MF 20% 50V	C1430	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
C214	1-106-363-00	MYLAR	0.0068MF 10% 400V	C1431	1-126-529-11	ELECT	0.47MF 20% 50V
C217	1-106-363-00	MYLAR	0.0068MF 10% 400V	C1432	1-124-902-00	ELECT	0.47MF 20% 50V
C218	1-106-375-12	MYLAR	0.022MF 10% 250V	C1433	1-124-122-11	ELECT	100MF 20% 50V
C219	1-106-375-12	MYLAR	0.022MF 10% 250V	C1436	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C220	1-137-413-11	FILM	0.0033MF 10% 100V	C1437	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C221	1-137-413-11	FILM	0.0033MF 10% 100V	C1438	1-106-367-00	MYLAR	0.01MF 10% 400V
C222	1-106-385-00	MYLAR	0.056MF 10% 100V	C1439	1-106-367-00	MYLAR	0.01MF 10% 400V
C223	1-106-385-00	MYLAR	0.056MF 10% 100V	C1440	1-124-907-11	ELECT	10MF 20% 50V
C224	1-106-367-00	MYLAR	0.01MF 10% 400V	C1441	1-124-907-11	ELECT	10MF 20% 50V
C225	1-136-173-00	FILM	0.47MF 5% 50V	C1442	1-136-165-00	FILM	0.1MF 5% 50V
C226	1-136-173-00	FILM	0.47MF 5% 50V	C1443	1-136-165-00	FILM	0.1MF 5% 50V
C227	1-106-375-12	MYLAR	0.022MF 10% 250V	C1444	1-124-910-11	ELECT	47MF 20% 50V
C228	1-137-104-11	FILM	0.033MF 10% 250V	C1445	1-102-824-00	CERAMIC	470PF 5% 50V
C229	1-136-204-11	MYLAR	0.015MF 10% 400V	C1446	1-102-824-00	CERAMIC	470PF 5% 50V
C230	1-136-204-11	MYLAR	0.015MF 10% 400V	C1501	1-124-927-11	ELECT	4.7MF 20% 50V
C231	1-124-902-00	ELECT	0.47MF 20% 50V	C1502	1-124-903-11	ELECT	1MF 20% 50V
C232	1-124-907-11	ELECT	10MF 20% 50V	C1503	1-137-410-11	FILM	0.001MF 10% 100V
C233	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	C1504	1-124-910-11	ELECT	47MF 20% 50V
C234	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	C1505	1-106-383-00	MYLAR	0.047MF 10% 100V
C235	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	C1507	1-137-413-11	FILM	0.0033MF 10% 100V
C236	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	C1508	1-124-903-11	ELECT	1MF 20% 50V
C237	1-124-902-00	ELECT	0.47MF 20% 50V	C1509	1-124-903-11	ELECT	1MF 20% 50V
C238	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	C1511	1-124-927-11	ELECT	4.7MF 20% 50V
C239	1-126-103-11	ELECT	470MF 20% 16V	C1512	1-137-045-11	FILM	0.0068MF 10% 400V
C240	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V	C1513	1-163-105-00	CERAMIC CHIP	33PF 5% 50V
C241	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V	< DIODE >			
C242	1-163-033-00	CERAMIC CHIP	0.022MF 50V	D201	8-719-110-14	DIODE RD9.1ESB2	
C243	1-163-033-00	CERAMIC CHIP	0.022MF 50V	D202	8-719-110-14	DIODE RD9.1ESB2	
C244	1-163-033-00	CERAMIC CHIP	0.022MF 50V	D205	8-719-110-03	DIODE RD7.5ESB2	
C245	1-163-033-00	CERAMIC CHIP	0.022MF 50V	D206	8-719-110-03	DIODE RD7.5ESB2	
C1401	1-124-907-11	ELECT	10MF 20% 50V	D1401	8-719-110-03	DIODE RD7.5ESB2	
C1402	1-126-103-11	ELECT	470MF 20% 16V	D1403	8-719-110-03	DIODE RD7.5ESB2	
C1403	1-163-003-11	CERAMIC CHIP	330PF 10% 50V	D1404	8-719-110-03	DIODE RD7.5ESB2	
C1404	1-136-165-00	FILM	0.1MF 5% 50V	D1405	8-719-110-03	DIODE RD7.5ESB2	
C1405	1-163-029-11	CERAMIC CHIP	0.0047MF 50V	D1406	8-719-110-03	DIODE RD7.5ESB2	
C1406	1-136-165-00	FILM	0.1MF 5% 50V	D1407	8-719-921-77	DIODE MTZN-10C	
C1407	1-124-910-11	ELECT	47MF 20% 50V	D1408	8-719-110-14	DIODE RD9.1ESB3	
C1408	1-124-122-11	ELECT	100MF 20% 50V	D1409	8-719-110-14	DIODE RD9.1ESB3	
C1409	1-126-233-11	ELECT	22MF 20% 50V	D1410	8-719-110-14	DIODE RD9.1ESB3	
C1410	1-124-907-11	ELECT	10MF 20% 50V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D1415	8-719-110-03	DIODE RD7.5ESB2		R221	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1418	8-719-110-03	DIODE RD7.5ESB2		R222	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1419	8-719-110-03	DIODE RD7.5ESB2		R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1420	8-719-110-03	DIODE RD7.5ESB2		R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1421	8-719-110-03	DIODE RD7.5ESB2		R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1422	8-719-110-03	DIODE RD7.5ESB2		R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1423	8-719-110-03	DIODE RD7.5ESB2		R227	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1424	8-719-110-03	DIODE RD7.5ESB2		R228	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1425	8-719-110-03	DIODE RD7.5ESB2		R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W
D1426	8-719-110-03	DIODE RD7.5ESB2		R230	1-216-079-00	METAL GLAZE	18K 5% 1/10W
D1501	8-719-300-33	DIODE RU-3AM		R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D1502	8-719-911-19	DIODE 1SS119		R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D1503	8-719-911-19	DIODE 1SS119		R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D1504	8-719-911-19	DIODE 1SS119		R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D1505	8-719-911-19	DIODE 1SS119		R235	1-216-295-00	METAL GLAZE	0 5% 1/10W
D1506	8-719-982-33	DIODE MTZJ-36D		R236	1-216-295-00	METAL GLAZE	0 5% 1/10W
D1507	8-719-911-19	DIODE 1SS119		R240	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1510	8-719-911-19	DIODE 1SS119		R241	1-216-091-00	METAL GLAZE	56K 5% 1/10W
				R242	1-216-091-00	METAL GLAZE	56K 5% 1/10W
				R243	1-216-075-00	METAL GLAZE	12K 5% 1/10W
			< IC >	R244	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
IC201	8-759-013-17	IC TDA6200		R245	1-216-075-00	METAL GLAZE	12K 5% 1/10W
IC1401	8-752-032-27	IC CXA1114P		R246	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
IC1402	8-759-946-32	IC TEA2014A		R247	1-216-075-00	METAL GLAZE	12K 5% 1/10W
IC1403	8-759-140-53	IC UPD4053BC		R248	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
IC1501	8-759-942-16	IC TEA2031A		R249	1-216-075-00	METAL GLAZE	12K 5% 1/10W
			< JACK >	R250	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
J1402	1-561-534-41	SOCKET, PIN 21P		R1400	1-216-295-00	METAL GLAZE	0 5% 1/10W
J1403	1-561-534-41	SOCKET, PIN 21P		R1401	1-216-023-00	METAL GLAZE	82 5% 1/10W
				R1402	1-216-170-00	METAL GLAZE	68 5% 1/8W
			< TRANSISTOR >	R1403	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1404	1-216-178-00	METAL GLAZE	150 5% 1/8W
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1405	1-249-434-11	CARBON	27K 5% 1/4W
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R1407	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1408	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1409	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G		R1410	1-216-089-00	METAL GLAZE	47K 5% 1/10W
			< RESISTOR >	R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W
R201	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R1412	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R202	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R1413	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R203	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1414	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R204	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1415	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1416	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W
R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1418	1-247-738-11	CARBON	82 5% 1/2W F
R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1419	1-216-295-00	METAL GLAZE	0 5% 1/10W
R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1420	1-216-295-00	METAL GLAZE	0 5% 1/10W
R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1421	1-216-295-00	METAL GLAZE	0 5% 1/10W
R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1422	1-216-025-00	METAL GLAZE	100 5% 1/10W
R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1423	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1424	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R214	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1425	1-216-045-00	METAL GLAZE	680 5% 1/10W
R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1427	1-216-001-00	METAL GLAZE	10 5% 1/10W
R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R218	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1430	1-216-170-00	METAL GLAZE	68 5% 1/8W
R220	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1431	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R1432	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
R1434	1-249-393-11	CARBON	10 5%	1/4W F	R1519	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R1437	1-249-434-11	CARBON	27K 5%	1/4W	R1520	1-216-111-00	METAL GLAZE	390K 5% 1/10W (KV-X2941D)
R1440	1-216-045-00	METAL GLAZE	680 5%	1/10W	1-216-113-00	METAL GLAZE	470K 5% 1/10W (KV-X2141D/KV-X2541D)	
R1441	1-216-045-00	METAL GLAZE	680 5%	1/10W	R1521	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
R1442	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R1550	1-216-349-00	METAL OXIDE	1 5% 1W F (KV-X2941D)
R1443	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R1556	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R1444	1-216-033-00	METAL GLAZE	220 5%	1/10W				< VARIABLE RESISTOR >
R1445	1-216-095-00	METAL GLAZE	82K 5%	1/10W	RV1501	1-238-023-11	RES, ADJ, CARBON	470K
R1446	1-216-033-00	METAL GLAZE	220 5%	1/10W	RV1502	1-241-630-11	RES, ADJ, CARBON	10K
R1447	1-216-033-00	METAL GLAZE	220 5%	1/10W	RV1503	1-241-631-11	RES, ADJ, CARBON	22K
R1448	1-216-025-00	METAL GLAZE	100 5%	1/10W	RV1504	1-241-627-11	RES, ADJ, CARBON	1K
R1449	1-216-023-00	METAL GLAZE	82 5%	1/10W	RV1505	1-238-023-11	RES, ADJ, CARBON	470K
R1452	1-216-049-00	METAL GLAZE	1K 5%	1/10W	RV1506	1-241-631-11	RES, ADJ, CARBON	22K
R1453	1-216-049-00	METAL GLAZE	1K 5%	1/10W	RV1507	1-238-009-11	RES, ADJ, CARBON	220
R1454	1-216-180-00	METAL GLAZE	180 5%	1/8W	RV1508	1-241-630-11	RES, ADJ, CARBON	10K
R1455	1-216-180-00	METAL GLAZE	180 5%	1/8W	RV1509	1-238-023-11	RES, ADJ, CARBON	470K
R1457	1-216-025-00	METAL GLAZE	100 5%	1/10W				*****
R1459	1-216-025-00	METAL GLAZE	100 5%	1/10W				*A-1654-008-A IFG BOARD, COMPLETE
R1460	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W				*****
R1461	1-216-190-00	METAL GLAZE	470 5%	1/8W				
R1462	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1463	1-216-049-00	METAL GLAZE	1K 5%	1/10W				
R1464	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W				
R1465	1-216-023-00	METAL GLAZE	82 5%	1/10W				
R1466	1-216-033-00	METAL GLAZE	220 5%	1/10W				
R1467	1-216-025-00	METAL GLAZE	100 5%	1/10W				< CONNECTOR >
R1468	1-216-025-00	METAL GLAZE	100 5%	1/10W	IFG13	*1-565-488-11	CONNECTOR, BOARD TO BOARD	12P
R1469	1-216-025-00	METAL GLAZE	100 5%	1/10W				< CAPACITOR >
R1470	1-216-025-00	METAL GLAZE	100 5%	1/10W				
R1471	1-216-023-00	METAL GLAZE	82 5%	1/10W				
R1472	1-216-023-00	METAL GLAZE	82 5%	1/10W	C1	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1473	1-216-023-00	METAL GLAZE	82 5%	1/10W	C2	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1474	1-216-113-00	METAL GLAZE	470K 5%	1/10W	C3	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1476	1-216-089-00	METAL GLAZE	47K 5%	1/10W	C4	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1477	1-216-089-00	METAL GLAZE	47K 5%	1/10W	C5	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1478	1-216-113-00	METAL GLAZE	470K 5%	1/10W	C6	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R1480	1-216-190-00	METAL GLAZE	470 5%	1/8W	C7	1-124-903-11	ELECT	1MF 20% 50V
R1482	1-216-178-00	METAL GLAZE	150 5%	1/8W	C8	1-124-907-11	ELECT	10MF 20% 50V
R1483	1-216-178-00	METAL GLAZE	150 5%	1/8W	C9	1-130-471-00	MYLAR	0.001MF 5% 50V
R1484	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C10	1-163-121-00	CERAMIC CHIP	150PF 5% 50V
R1485	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C11	1-163-119-00	CERAMIC CHIP	120PF 5% 50V
R1486	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C12	1-136-298-00	FILM	0.0033MF 2% 100V
R1487	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	C13	1-124-477-11	ELECT	47MF 20% 16V
R1488	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	C14	1-124-477-11	ELECT	47MF 20% 16V
R1489	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	C15	1-124-477-11	ELECT	47MF 20% 16V
R1501	1-216-081-00	METAL GLAZE	22K 5%	1/10W	C16	1-124-477-11	ELECT	47MF 20% 16V
R1502	1-216-083-00	METAL GLAZE	27K 5%	1/10W	C17	1-124-907-11	ELECT	10MF 20% 50V
R1503	1-216-113-00	METAL GLAZE	470K 5%	1/10W	C18	1-106-367-00	MYLAR	0.01MF 10% 400V
R1504	1-216-085-00	METAL GLAZE	33K 5%	1/10W	C19	1-106-367-00	MYLAR	0.01MF 10% 400V
R1505	1-216-081-00	METAL GLAZE	22K 5%	1/10W	C20	1-126-233-11	ELECT	22MF 20% 50V
R1506	1-216-113-00	METAL GLAZE	470K 5%	1/10W	C21	1-126-233-11	ELECT	22MF 20% 50V
R1509	1-216-105-00	METAL GLAZE	220K 5%	1/10W	C22	1-136-165-00	FILM	0.1MF 5% 50V
R1510	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W	C23	1-136-169-00	FILM	0.22MF 5% 50V
R1511	1-216-049-00	METAL GLAZE	1K 5%	1/10W	C24	1-124-034-51	ELECT	33MF 20% 16V
R1512	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C25	1-106-375-12	MYLAR	0.022MF 10% 250V
R1513	1-216-091-00	METAL GLAZE	56K 5%	1/10W	C26	1-106-383-00	MYLAR	0.047MF 10% 100V
R1514	1-216-049-00	METAL GLAZE	1K 5%	1/10W	C27	1-124-903-11	ELECT	1MF 20% 50V
R1515	1-216-117-00	METAL GLAZE	680K 5%	1/10W	C28	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
			(KV-X2141D/KV-X2541D)		C29	1-124-903-11	ELECT	1MF 20% 50V
R1516	1-216-079-00	METAL GLAZE	18K 5%	1/10W	C30	1-124-903-11	ELECT	1MF 20% 50V
R1517	1-216-033-00	METAL GLAZE	220 5%	1/10W				

**IFG**

The components identified by shading and marked **▲** are critical for safety.  
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C31	1-106-367-00	MYLAR 0.01MF	10% 400V
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V
C34	1-136-169-00	FILM 0.22MF	5% 50V
C35	1-124-907-11	ELECT 10MF	20% 50V
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C37	1-124-477-11	ELECT 47MF	20% 16V
C38	1-124-477-11	ELECT 47MF	20% 16V
C39	1-163-133-00	CERAMIC CHIP 470PF	5% 50V

< FILTER >

CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC

< DIODE >

D3	8-719-400-18	DIODE MA152WK
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< IC >

IC1	8-759-003-90	IC TBA129
IC2	8-759-003-90	IC TBA129
IC3	8-759-030-48	IC TDA6600-2
IC4	8-759-513-48	IC TDA2595/V9

< COIL >

L1	1-408-410-00	INDUCTOR 12UH
L2	1-408-410-00	INDUCTOR 12UH
L3	1-410-064-11	INDUCTOR 2.7MMH
L4	1-408-421-00	INDUCTOR 100UH
L5	1-408-421-00	INDUCTOR 100UH

< TRANSISTOR >

Q2	8-729-901-00	TRANSISTOR DTC124EK
Q3	8-729-216-22	TRANSISTOR 2SA1162-G
Q4	8-729-901-00	TRANSISTOR DTC124EK

< RESISTOR >

JR8	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR10	1-216-296-00	METAL GLAZE 0 5%	1/8W
R1	1-216-045-00	METAL GLAZE 680 5%	1/10W
R2	1-216-043-00	METAL GLAZE 560 5%	1/10W
R3	1-216-043-00	METAL GLAZE 560 5%	1/10W
R5	1-216-045-00	METAL GLAZE 680 5%	1/10W
R6	1-216-043-00	METAL GLAZE 560 5%	1/10W
R7	1-216-043-00	METAL GLAZE 560 5%	1/10W
R9	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R11	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R12	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R13	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R15	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R16	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R17	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R18	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R19	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R20	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R22	1-216-099-00	METAL GLAZE 120K 5%	1/10W
R24	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R25	1-216-077-00	METAL GLAZE 15K 5%	1/10W

< VARIABLE RESISTOR >

RV1	1-241-630-11	RES, ADJ, CARBON 10K
-----	--------------	----------------------

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV2	1-241-632-11	RES, ADJ, CARBON 47K	
		< FILTER >	
SFT1	1-527-840-00	FILTER, CERAMIC	
SFT2	1-527-839-00	FILTER, CERAMIC	

MISCELLANEOUS

PART NO.	DESCRIPTION	REMARK
▲ 1-426-383-11	COIL, DEMAGNETIZATION	(KV-X2141D)
▲ 1-460-091-11	COIL, DEGAUSS	(KV-X2541D)
▲ 1-426-398-11	COIL, DEMAGNETIZATION	(KV-X2941D)
▲ 1-451-295-11	DEFLECTION YOKE (Y21PFA2)	(KV-X2141D)
▲ 1-451-311-21	DEFLECTION YOKE (Y25PXA)	(KV-X2541D)
▲ 1-451-313-21	DEFLECTION YOKE (Y29PXA)	(KV-X2541D)
1-452-032-00	MAGNET, DISK; 10MM	
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
1-452-277-00	MAGNET, MAGNET BMC	(KV-X2141D)
▲ 1-452-509-42	NECK ASSY, PICTURE TUBE (N-308)	(KV-X2941D)

1-544-525-11 SPEAKER

▲ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
V901 ▲ 8-738-758-05	PICTURE TUBE (A51JHX61X)	(KV-X2141D)
▲ 8-733-231-05	PICTURE TUBE (A59JWC61X)	(KV-X2541D)
▲ 8-733-831-05	PICTURE TUBE (A68JK61X)	(KV-X2941D)

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
4-202-292-11	MANUAL, INSTRUCTION	(GERMAN/ENGLISH/DUTCH)
*4-380-340-61	BAG, PROTECTION	(KV-X2141D/KV-X2541D)
*4-384-027-01	BAG, PROTECTION	(KV-X2941D)
*4-200-172-01	CUSHION (UPPER) (ASSY)	(KV-X2141D)
*4-200-176-03	CUSHION (UPPER) (ASSY)	(KV-X2541D)
*4-398-903-01	CUSHION (UPPER) (ASSY)	(KV-X2941D)
*4-200-173-01	CUSHION (LOWER) (ASSY)	(KV-X2141D)
*4-200-177-01	CUSHION (LOWER) (ASSY)	(KV-X2541D)
*4-398-904-01	CUSHION (LOWER) (ASSY)	(KV-X2941D)
*4-202-291-01	INDIVIDUAL CARTON	(KV-X2141D)
*4-202-290-01	INDIVIDUAL CARTON	(KV-X2541D)
*4-398-905-01	INDIVIDUAL CARTON	(KV-X2941D)

REMOTE COMMANDER

1-465-796-11	CONTROL UNIT, REMOTE (RM-815)
4-031-670-01	COVER, POCKET (FOR RM-816)

# KV-X2141D/X2541D/X2941D

65Z61  
RM-816

## SONY. SERVICE MANUAL

*AEP Model*

*KV-X2141D*

*Chassis No. SCC-F07M-A*

*KV-X2541D*

*Chassis No. SCC-F07N-A*

*KV-X2941D*

*Chassis No. SCC-F07L-A*

## SUPPLEMENT-1

File this Supplement with the Service Manual.

### 1. INTRODUCTION

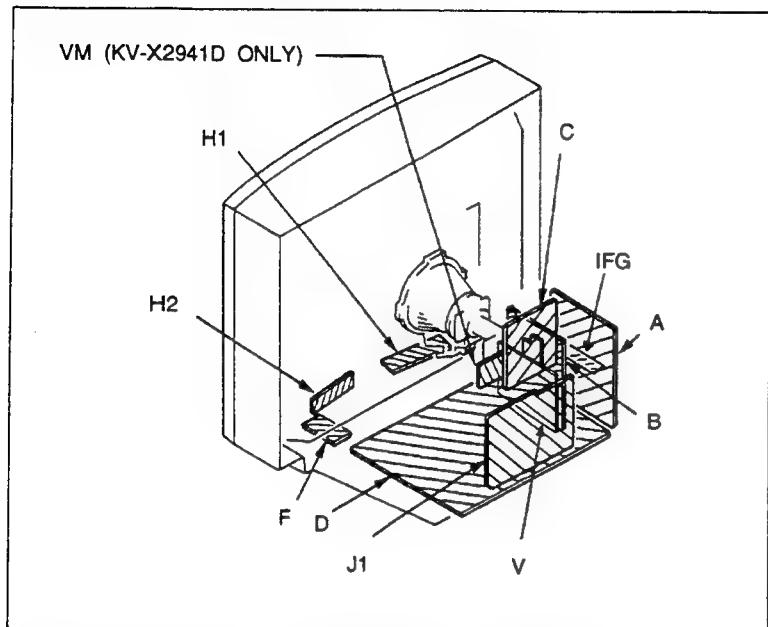
- KV-X2941D Schematic Diagrams, Printed Wiring Boards Exploded Views and Electrical Parts List has been Changed. (SERIAL NO. 4,000,001 and later)

### TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
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2-2.	Picture Tube .....	26
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## SECTION 1 DIAGRAMS

### 1-1. CIRCUIT BOARDS LOCATION



### 1-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — Conductor Side —

#### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  
 $\text{pF}$ :  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytic and tantalums.
- Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch: 5 mm
- Rating electrical power 1/4W
- All resistors are in ohms.  
 $\text{k}\Omega=1000\Omega$ ,  $\text{M}\Omega=1000\text{K}\Omega$
- : nonflammable resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- Circled numbers are waveform references.
- : B+ line.
- : signal path. (RF)

#### Reference information

RESISTOR	:	RN	METAL FILM
	:	RC	SOLID
	:	FPRD	NONFLAMMABLE CARBON
	:	FUSE	NONFLAMMABLE FUSIBLE
	:	RW	NONFLAMMABLE WIREWOUND
	:	RS	NONFLAMMABLE METAL OXIDE
	:	RB	NONFLAMMABLE CEMENT
	:	※	ADJUSTABLE RESISTOR
COIL	:	LF-8L	MICRO INDUCTOR
CAPACITOR	:	TA	TANTALUM
	:	PS	STYROL
	:	PP	POLYPROPYLENE
	:	PT	MYLAR
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	:	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATURE
	:	ALR	HIGH RIPPLE

#### Note:

The components identified by shading and mark are critical for safety. Replace only with part number specified.

**D** [TUNING CONTROL, POWER CONTROL,  
AUDIO OUT, HV OUT]

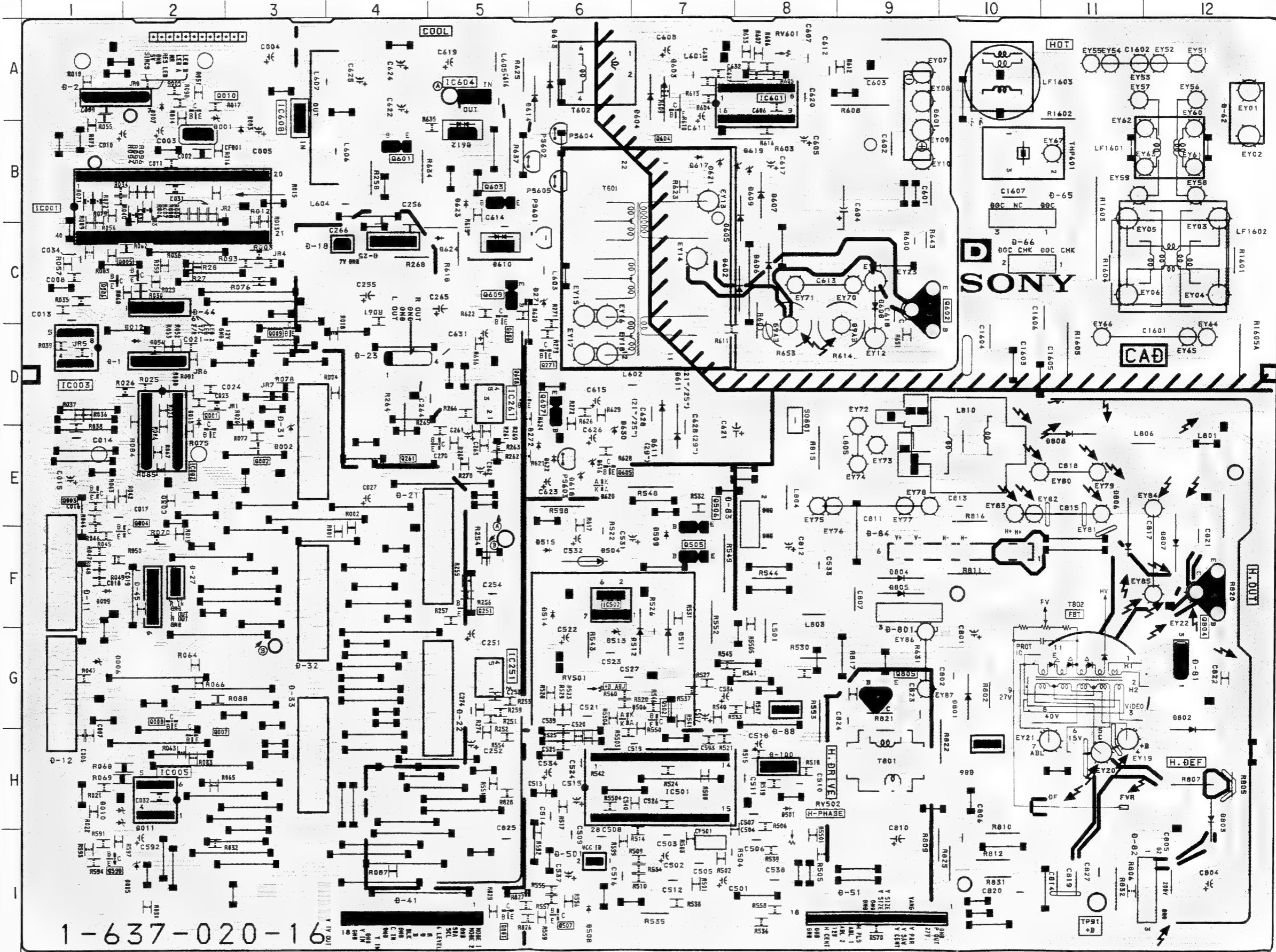
## NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

## — D Board —

IC	D012	D-2
IC001	B-1	D-2
IC002	E-2	C-6
IC003	D-1	E-5
IC005	H-2	H-8
IC251	G-5	F-6
IC261	D-5	G-7
IC501	H-7	I-6
IC502	F-6	F-7
IC601	A-8	G-7
IC604	A-5	G-6
IC608	A-3	F-6
<b>TRANSISTOR</b>		
Q001	D-2	A-9
Q002	E-3	C-7
Q003	E-1	A-7
Q004	E-2	C-7
Q005	C-1	C-8
Q006	C-1	B-8
Q007	G-2	C-9
Q008	G-2	B-8
Q009	D-3	C-5
Q010	A-2	D-7
Q251	F-5	B-5
Q261	E-4	A-6
Q271	D-6	A-5
Q502	G-7	E-6
Q505	F-7	B-7
Q506	E-7	E-6
Q507	I-6	B-8
Q598	I-1	E-6
Q601	B-4	B-7
Q602	C-9	E-6
Q603	B-5	B-5
Q604	B-7	C-5
Q605	E-6	E-6
Q606	D-5	D-10
Q607	D-6	G-12
Q608	D-5	G-13
Q609	C-5	F-9
Q801	I-5	F-9
Q804	F-12	E-11
Q805	G-9	F-12
<b>DIODE</b>		
D001	B-2	
D003	B-3	
D005	I-2	
D006	G-1	
D007	A-2	
D009	F-1	
D010	H-1	
D011	H-2	
<b>VARIABLE RESISTOR</b>		
RV501	G-6	
RV502	H-8	
RV601	A-8	
<b>TEST POINT</b>		
D009	F-1	
D010	H-1	
D011	H-2	
TP91	I-11	

## — D Board —



65264

# KV-X2141D/X2541D/X2941D

## RM-816

**SONY.  
SERVICE MANUAL**

**AEP Model**

**KV-X2141D**

**Chassis No. SCC-F07M-A**

**KV-X2541D**

**Chassis No. SCC-F07N-A**

**KV-X2941D**

**Chassis No. SCC-F07L-A**

## CORRECTION-1

**SUBJECT : PARTS CHANGE**

Correct the service manual as shown below.

File this collection with the service manual.

: Corrected portion

### SECTION 6 EXPLODED VIEWS

#### 6-1. CHASSIS (KV-X2941D only) (See page 63)

Incorrect	Correct
<b>REF. NO. PART. NO. DESCRIPTION</b> 23 A 4-389-201-01 HOLDER, AC CORD 24 A 1-590-501-11 CORD,POWER (WITH NOISE FILTER) 26 * 3-646-071-00 HOLDER, WIRE	<b>REF. NO. PART. NO. DESCRIPTION</b> 23 A 4-389-201-01 HOLDER, AC CORD 24 A 1-751-680-11 CORD,POWER (WITH NOISE FILTER) 25 * 3-646-071-00 HOLDER, WIRE



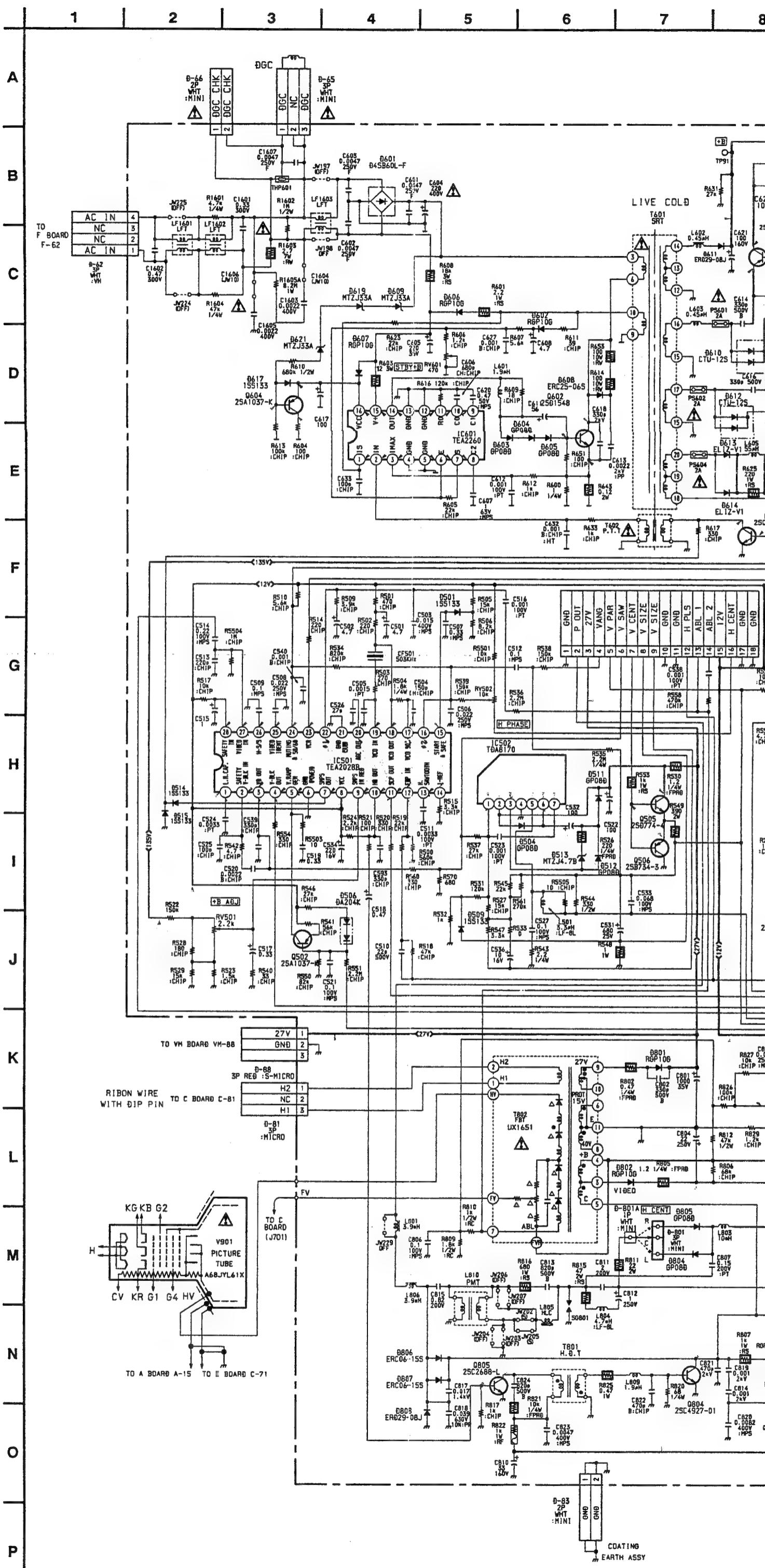
9-974-808-91

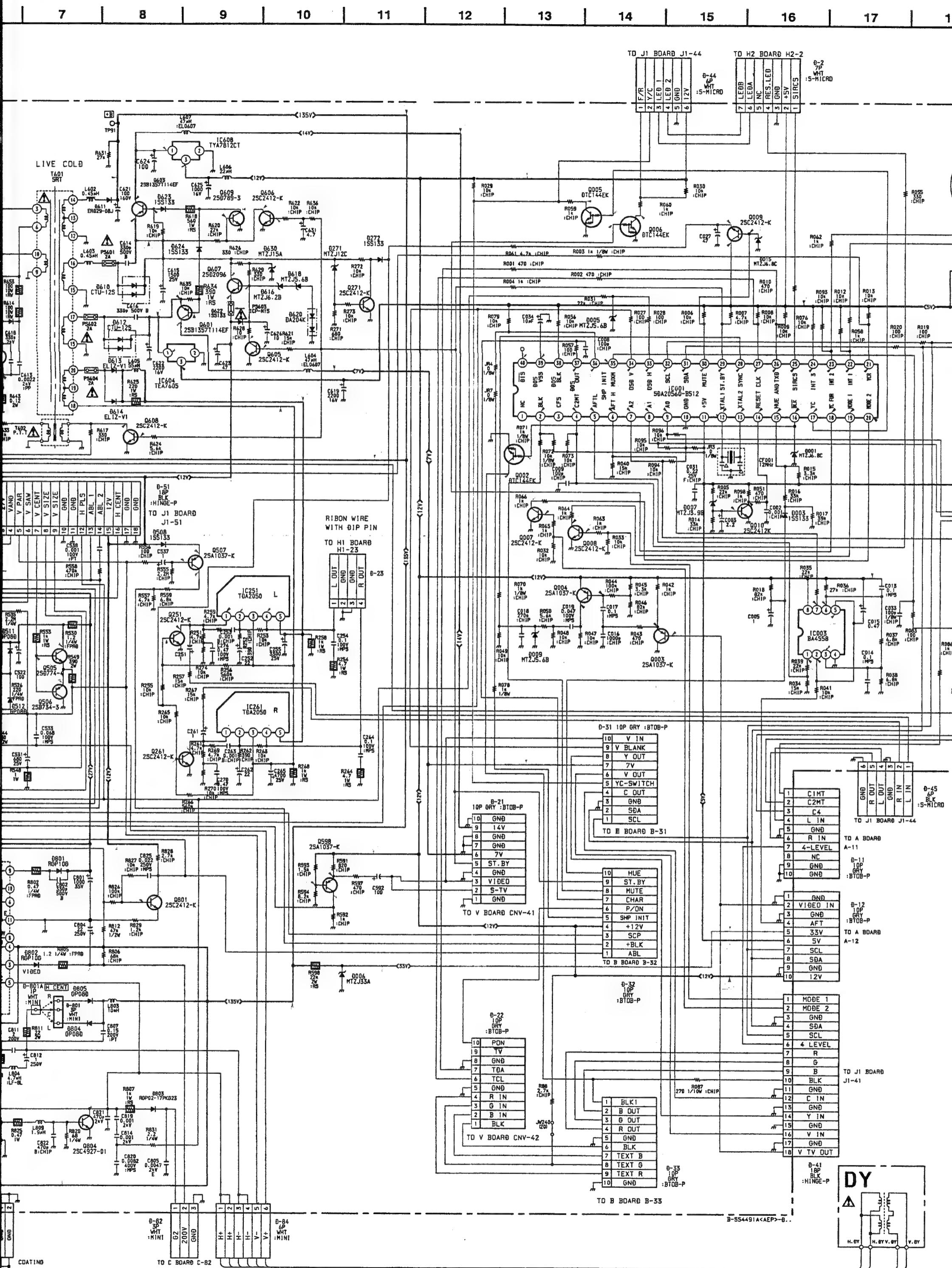
**Sony Corporation  
TV Group**

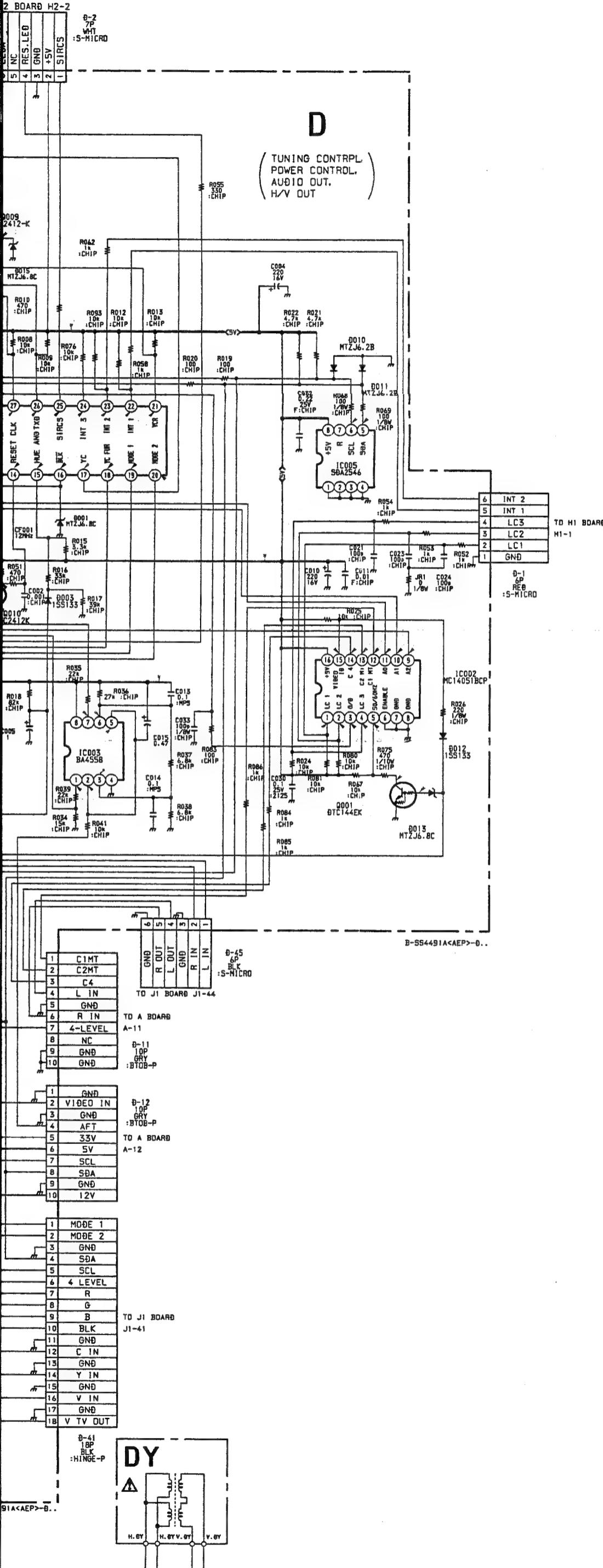
English  
94AE02468-1  
Printed in Japan  
© 1994. 1

**D Board**

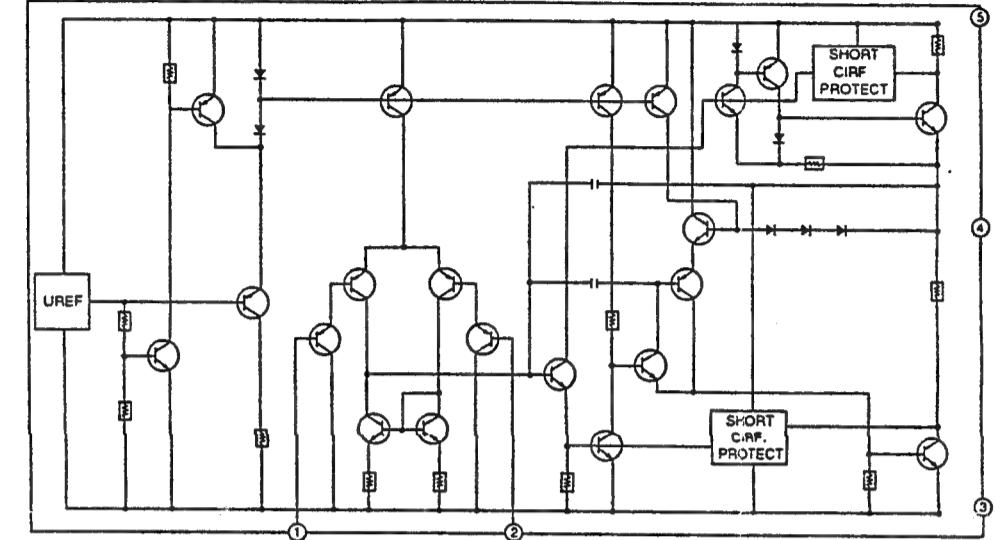
IC001	TUNING CTL
IC002	ON SCREEN DISPLAY
IC003	AFT COMPARATOR
IC005	MY MEMORY
IC251	AUDIO OUT (L)
IC261	AUDIO OUT (R)
IC501	DEFLECTION PROCESSOR
IC502	VERTICAL OUT
IC601	PRIMARY SMRS CTL
IC604	+5V REGULATOR
IC608	+12V REGULATOR
Q001	50/60Hz SWITCH
Q002	BLK SWITCH
Q003	SYNC SEPARATOR
Q004	SYNC SEPARATOR
Q005	Y/C SWITCH
Q006	FRONT REAR SWITCH
Q007	MODE 2 SWITCH
Q008	MODE 1 SWITCH
Q009	MUTE SWITCH
Q010	RESET
Q251	AUDIO MUTE
Q261	AUDIO MUTE
Q271	VOLTAGE DETECT
Q502	CONSTANT CURRENT SOURCE
Q505	VERTICAL CENTER
Q506	VERTICAL CENTER
Q507	CANAL + BLK
Q598	VIDEO AMP
Q601	STBY SWITCH
Q602	REG OUT
Q603	STBY SWITCH
Q604	FAST ON/OFF
Q605	STBY SWITCH
Q606	STBY SWITCH
Q607	+12V REGULATOR
Q608	STBY SWITCH
Q609	STBY SWITCH
Q81	ABL AMP
Q81	HORIZONTAL OUT
Q815	HORIZONTAL DRIVER
D001	PROTECT
D002	PROTECT
D003	HUE CTL
D005	PROTECT
D006	VC VOLTAGE REGULATION
D007	PLOT RESET
D009	CLIPPING SYNC LEVEL
D010	PROTECT
D011	PROTECT
D012	PROTECT
D013	PROTECT
D271	VOLTAGE DETECT
D272	DECOPPLING MUTE AUDIO
D501	START
D504	V PULSE OUT
D508	CANAL + BLK LEVEL
D509	V LIN
D511	PROTECT
D512	PROTECT
D513	PROTECT
D514	PROTECT
D515	PROTECT
D601	AC RECT
D602	REF RECT
D603	SMPS DRIVE 1
D604	SMPS DRIVE 2
D605	SMPS DRIVE 3
D606	+12V REC
D607	REF RECT
D608	PULSE CLIPPER
D609	FAST ON/OFF
D610	+14V REC
D611	+135V REC
D612	+7V REC
D613	AF V REC-T
D614	AF V REC-2
D616	+12V REG
D617	PROTECT
D618	+12V REF
D619	FAST ON/OFF-2
D620	+12V REF
D621	FAST ON/OFF-3
D622	PROTECT
D623	DECOPPLING STBY
D624	DECOPPLING STBY
D630	+12V REC
D801	+27V REC
D802	+200V REC
D803	G2 REC
D804	H CENTER-1
D805	H CENTER-2
D806	H DAMPER-1
D807	H DAMPER-2
D808	PIN DAMPER



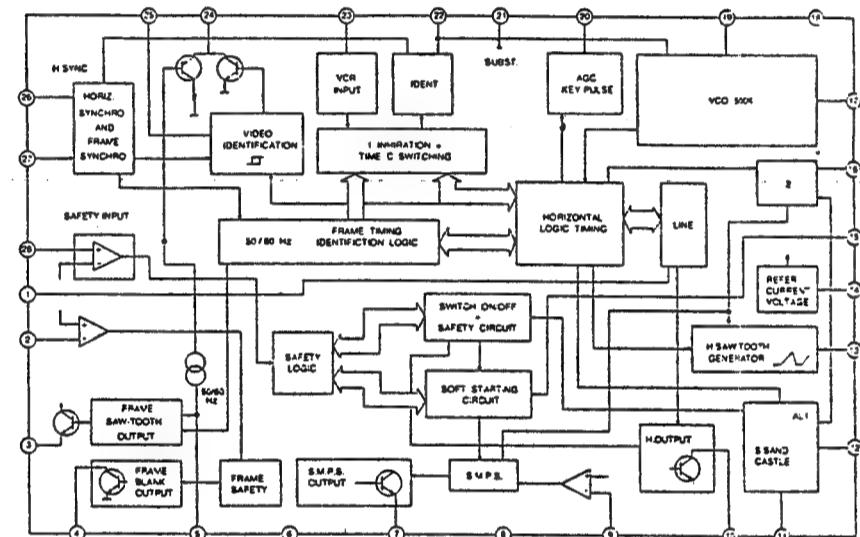




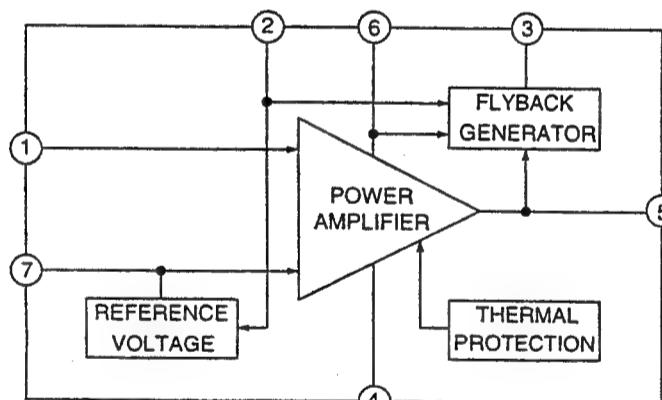
D Board IC251/261 TDA2050



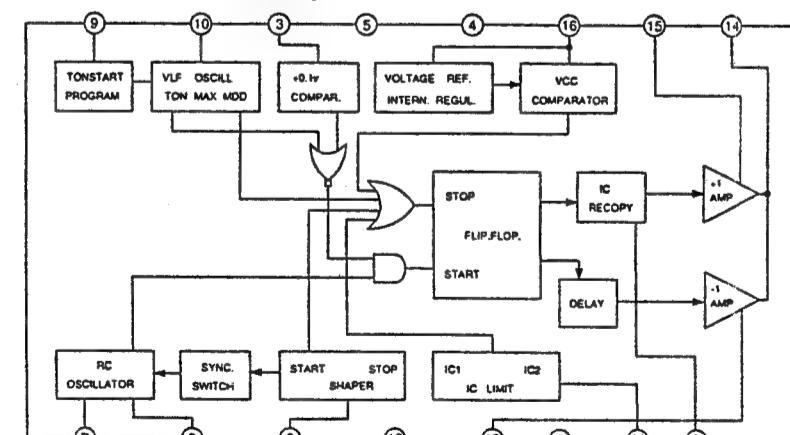
D Board IC501 TEA2028E



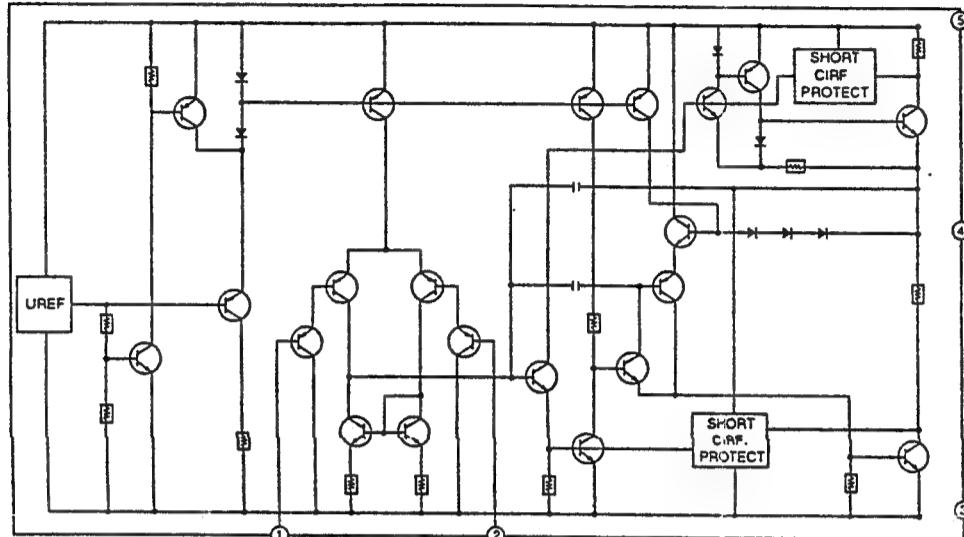
D Board IC502 TDA8170



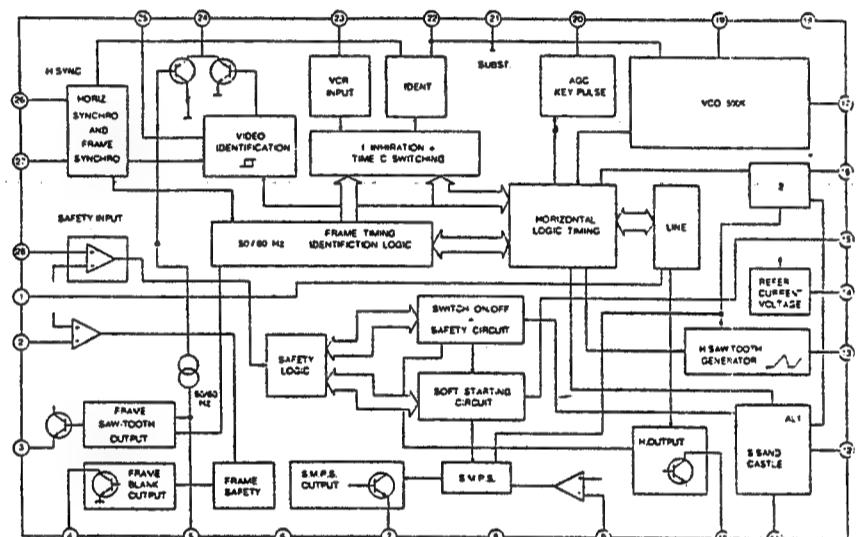
D Board IC601 TEA2260



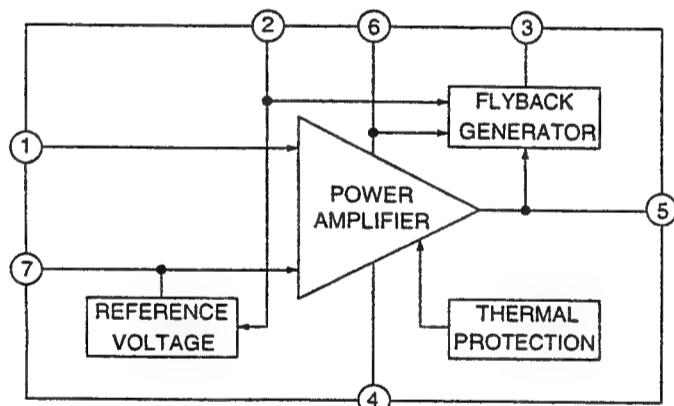
D Board IC251/261 TDA2050



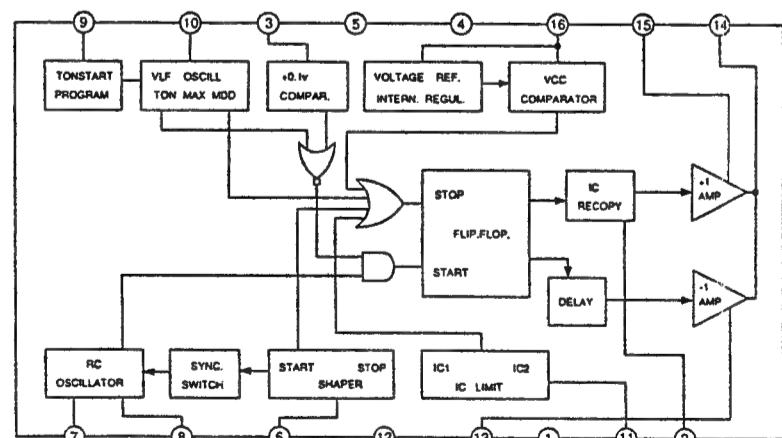
D Board IC501 TEA2028B



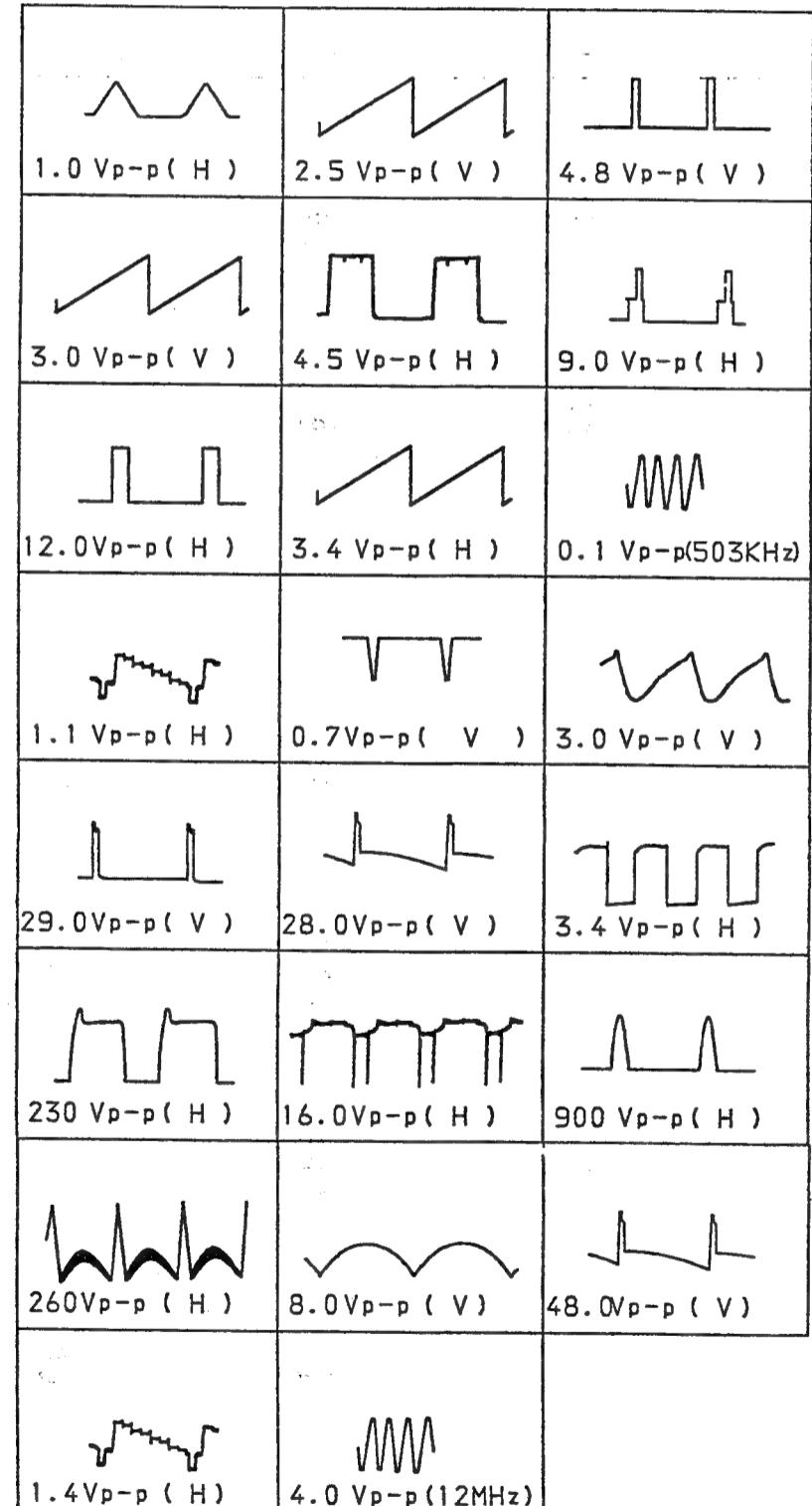
D Board IC502 TDA8170



D Board IC601 TEA2260



— D Board —



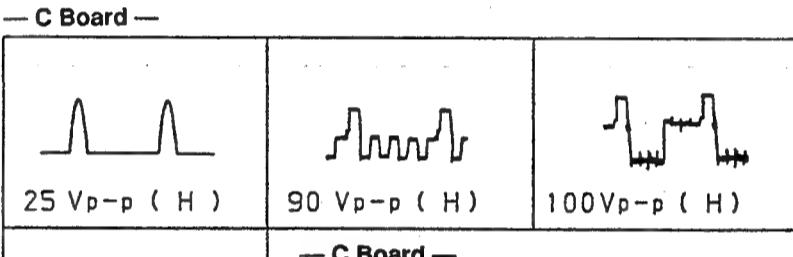
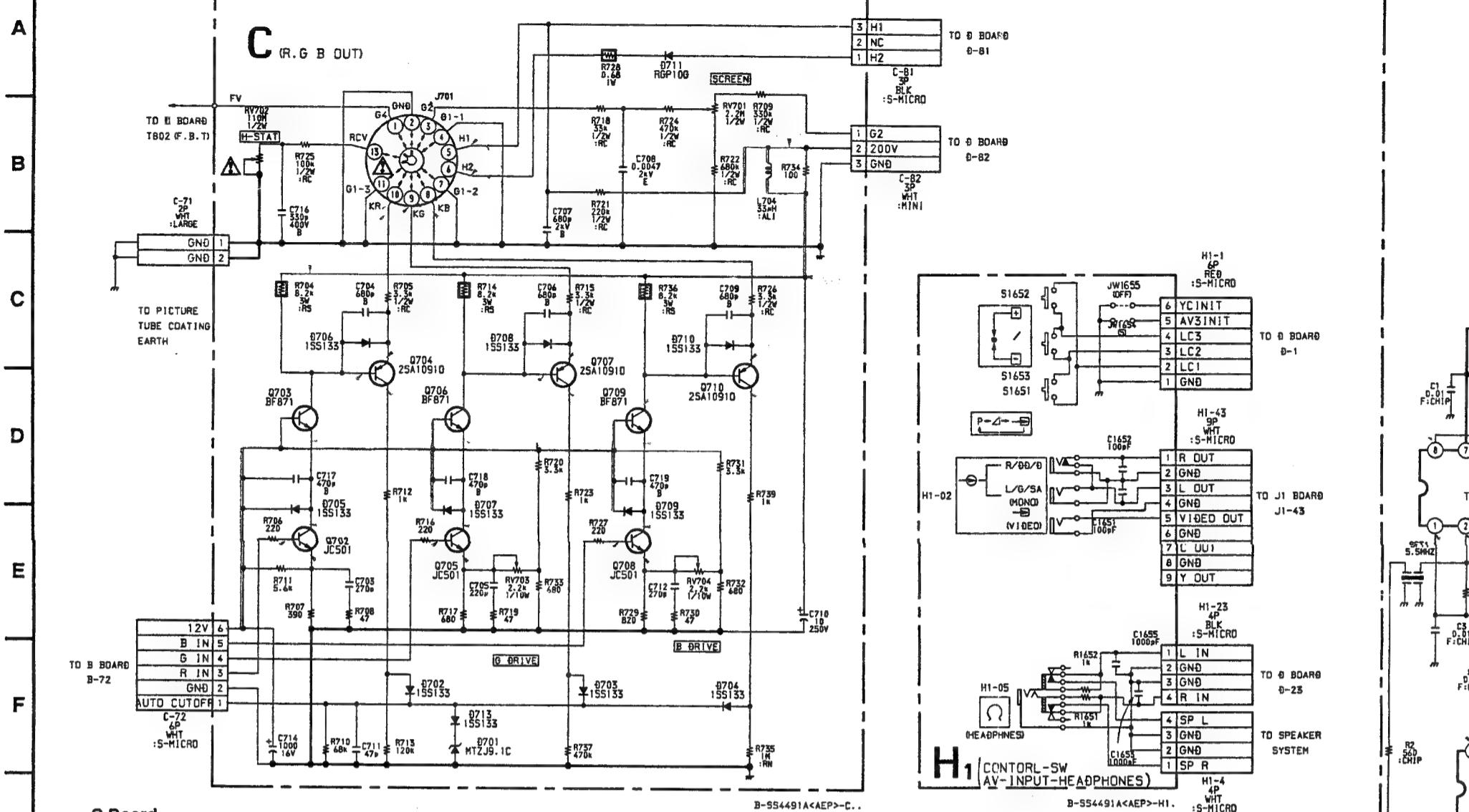
Schematic diagram

Schematic diagram

← D board

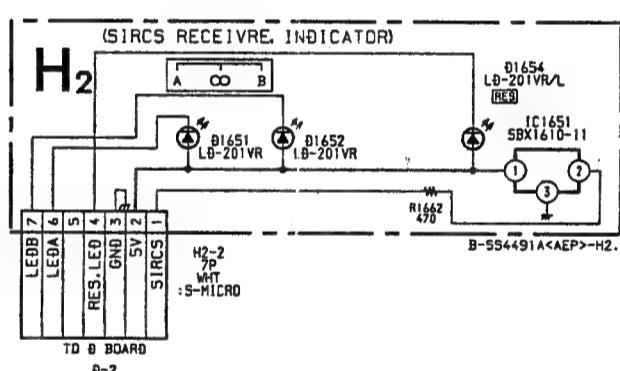
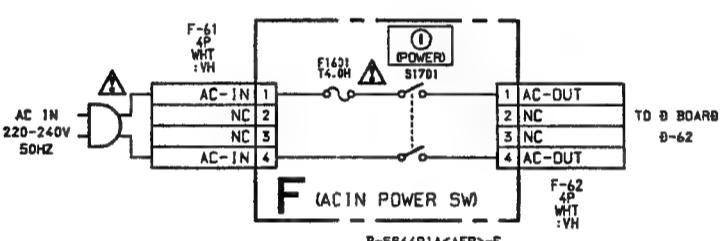
A C F H1 H2

IFG J1 V VM boards →

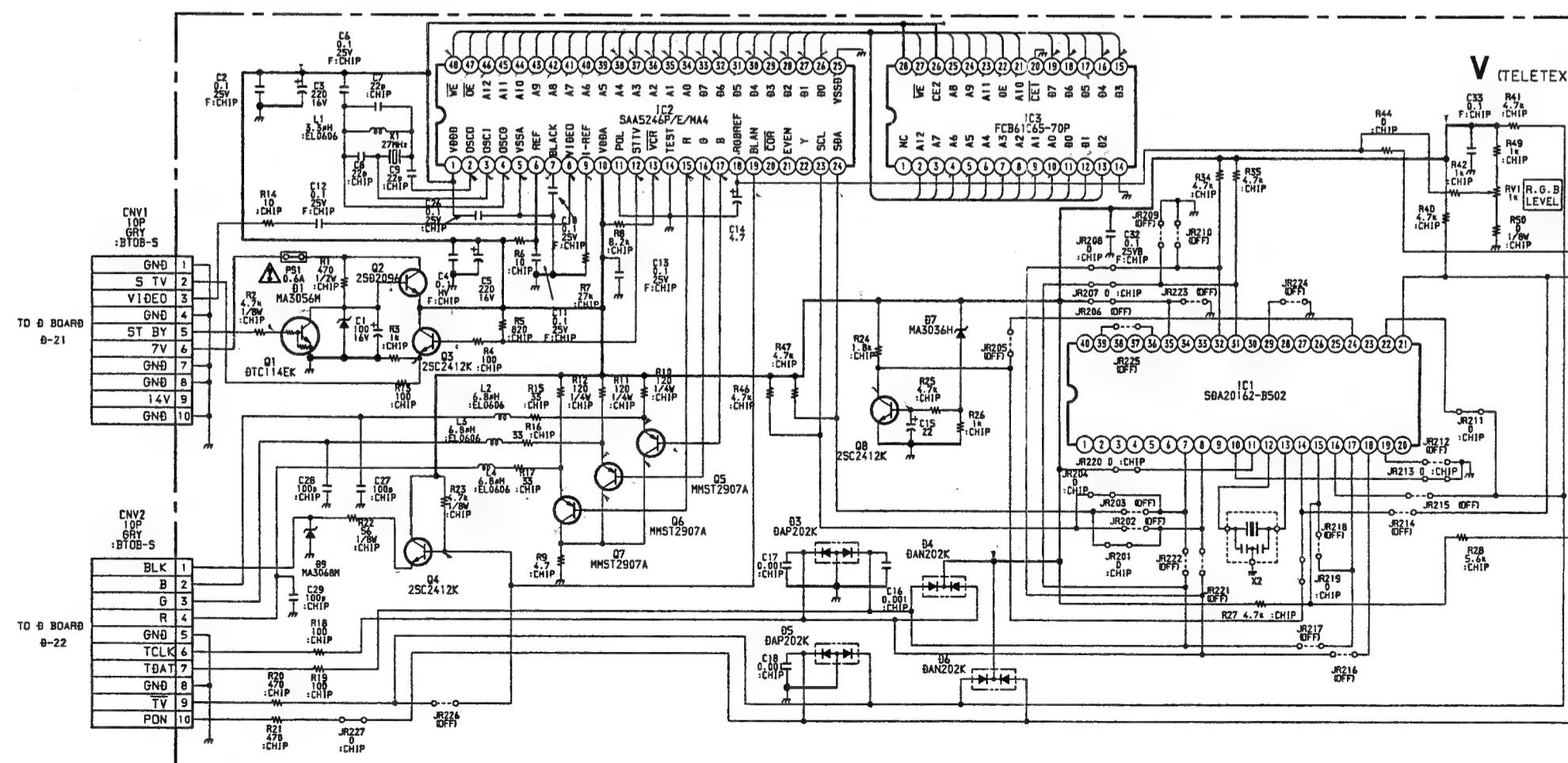
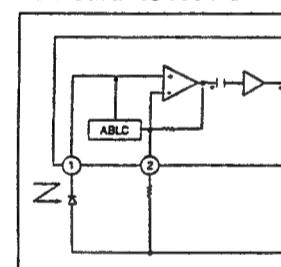


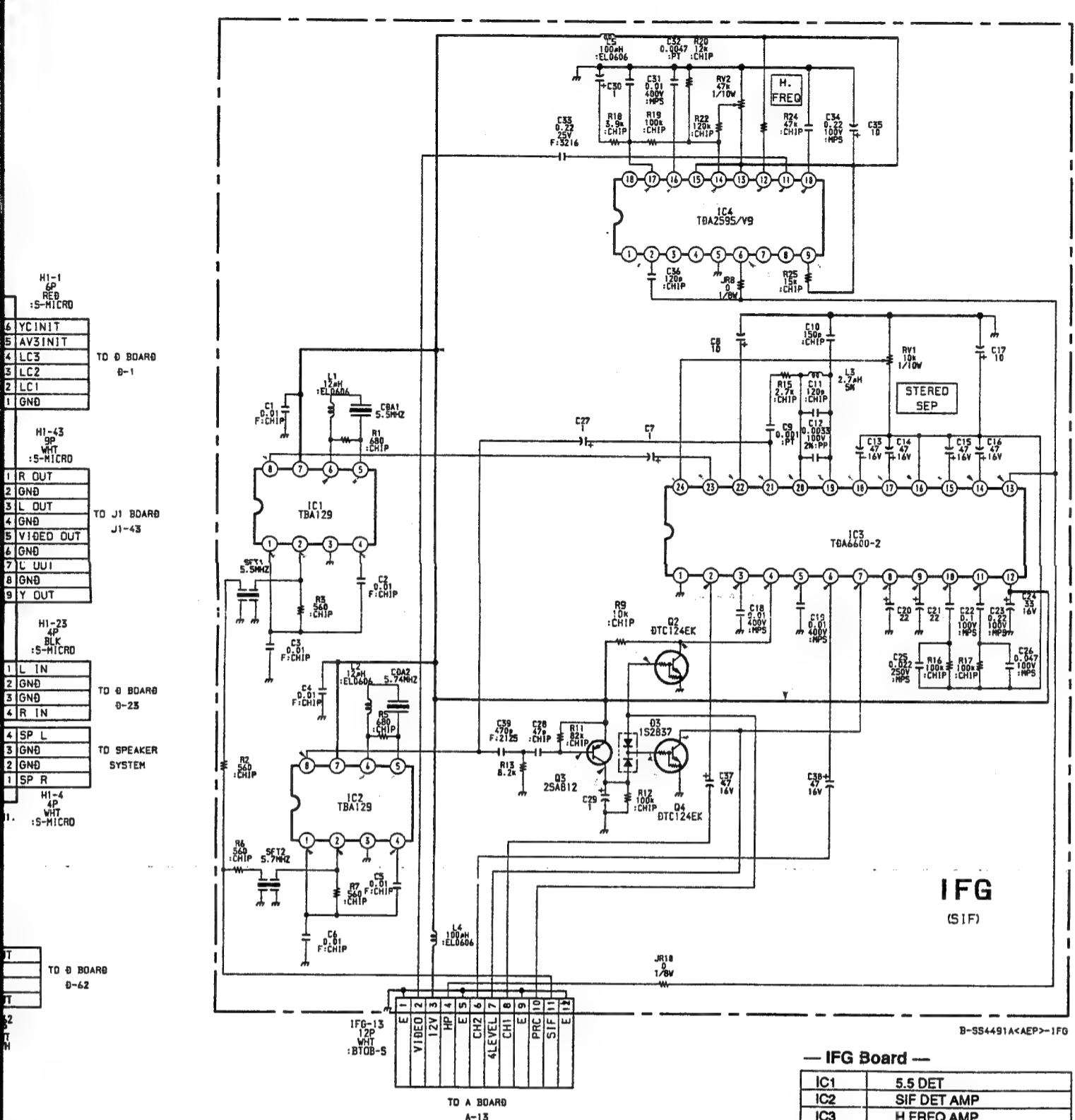
— C Board —

Q702	R DRIVE
Q703	R OUT
Q704	ACO MEASURING
Q705	G DRIVE
Q706	G OUT
Q707	ACO MEASURING
Q708	B DRIVE
Q709	B OUT
Q710	ACO MEASURING
D701	PROTECT
D702	PROTECT
D703	PROTECT
D704	PROTECT
D705	PROTECT
D706	PROTECT
D707	PROTECT
D708	PROTECT
D709	PROTECT
D710	PROTECT
D711	HEATER VOLTAGE REC
D713	PROTECT



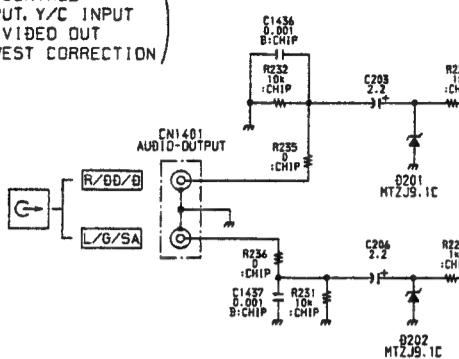
H2 Board IC1651 SBX



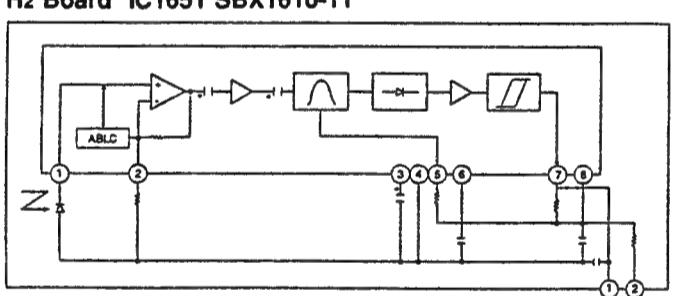


<b>— IFG Board —</b>	
IC1	5.5 DET
IC2	SIF DET AMP
IC3	H FREQ AMP
IC4	HORIZ COMBINATION
Q2	SW
Q3	SW
Q4	SW
Q5	SW

**J1** (AUDIO CONTROL  
AV INPUT, Y/C INPUT  
SCART, VIDEO OUT  
EAST-WEST CORRECTION)



**H2 Board IC1651 SBX1610-11**

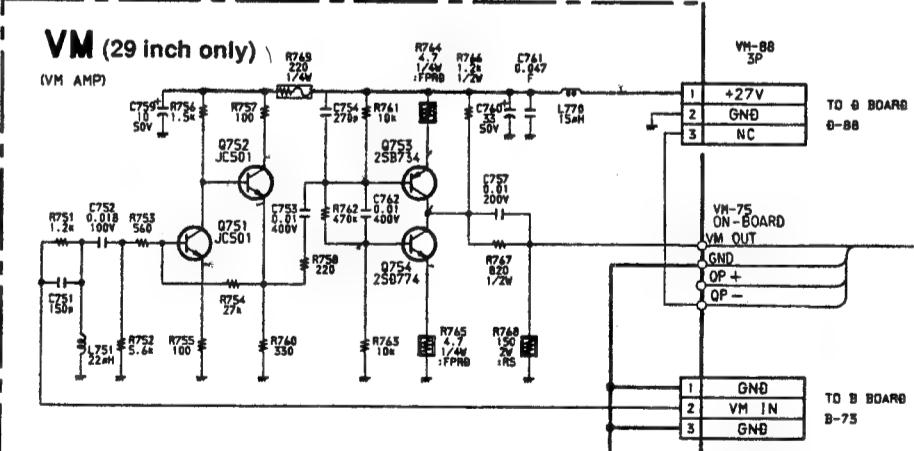


**— H2 Board —**

<b>IC1651</b>	INFRARED RECEIVER
D1651	AUDIO CHANNEL A INDICATOR
D1652	AUDIO CHANNEL B INDICATOR
D1654	RESET

**— VM Board — (29 inch only)**

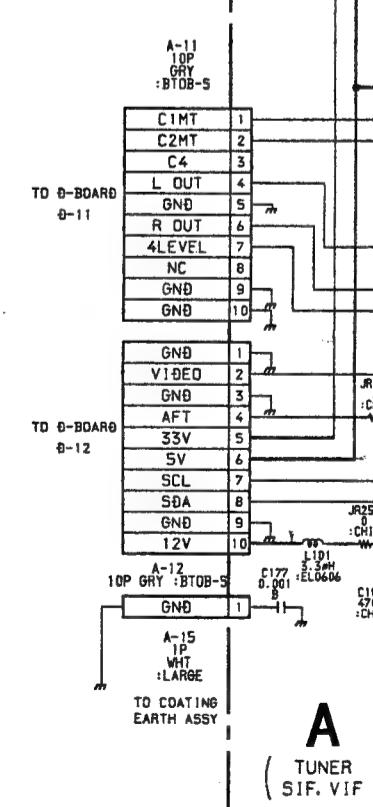
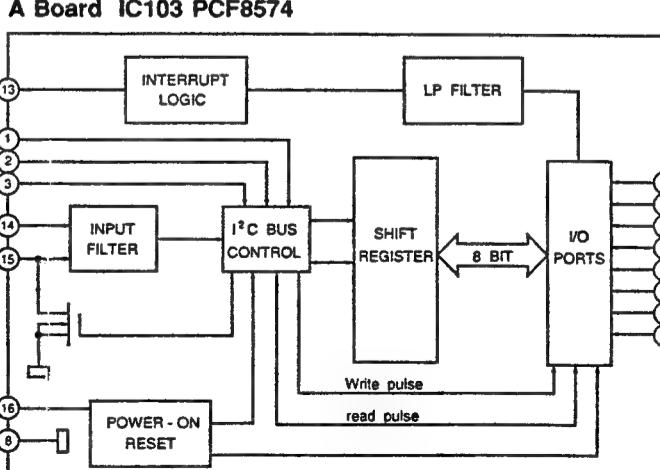
Q751	REF-AMP
Q752	REF-AMP
Q753	PUSH-PULL OUT
Q754	PUSH-PULL OUT



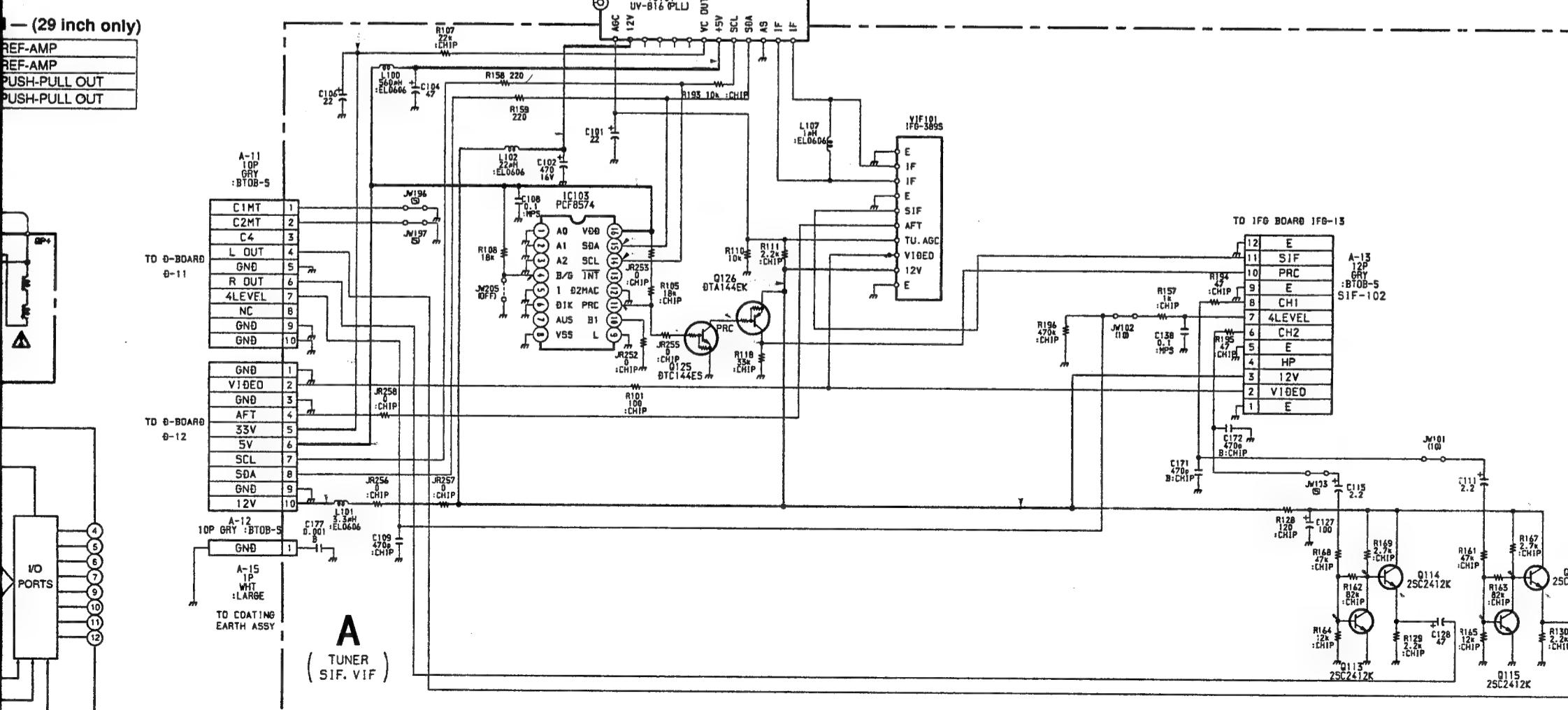
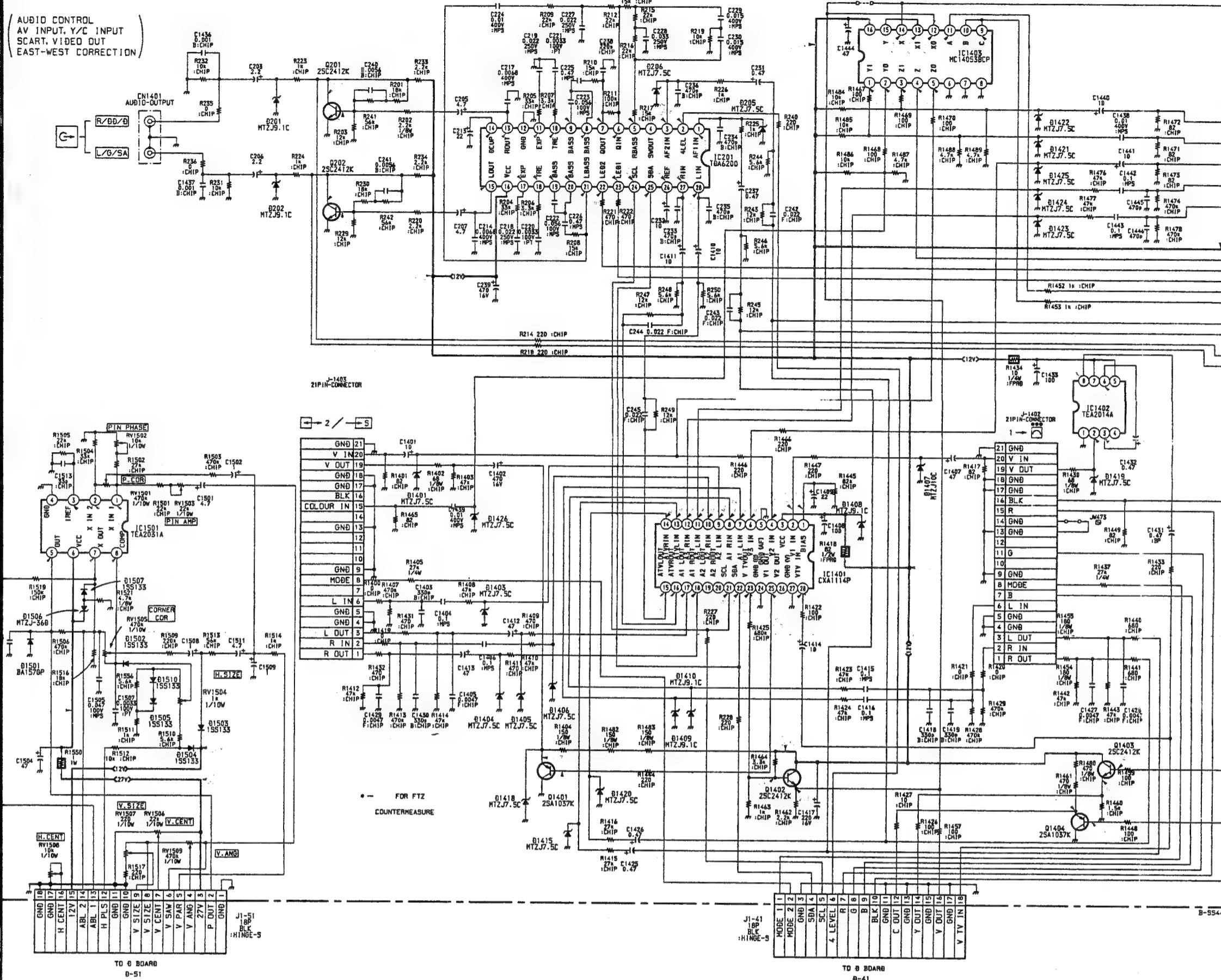
**— V Board —**

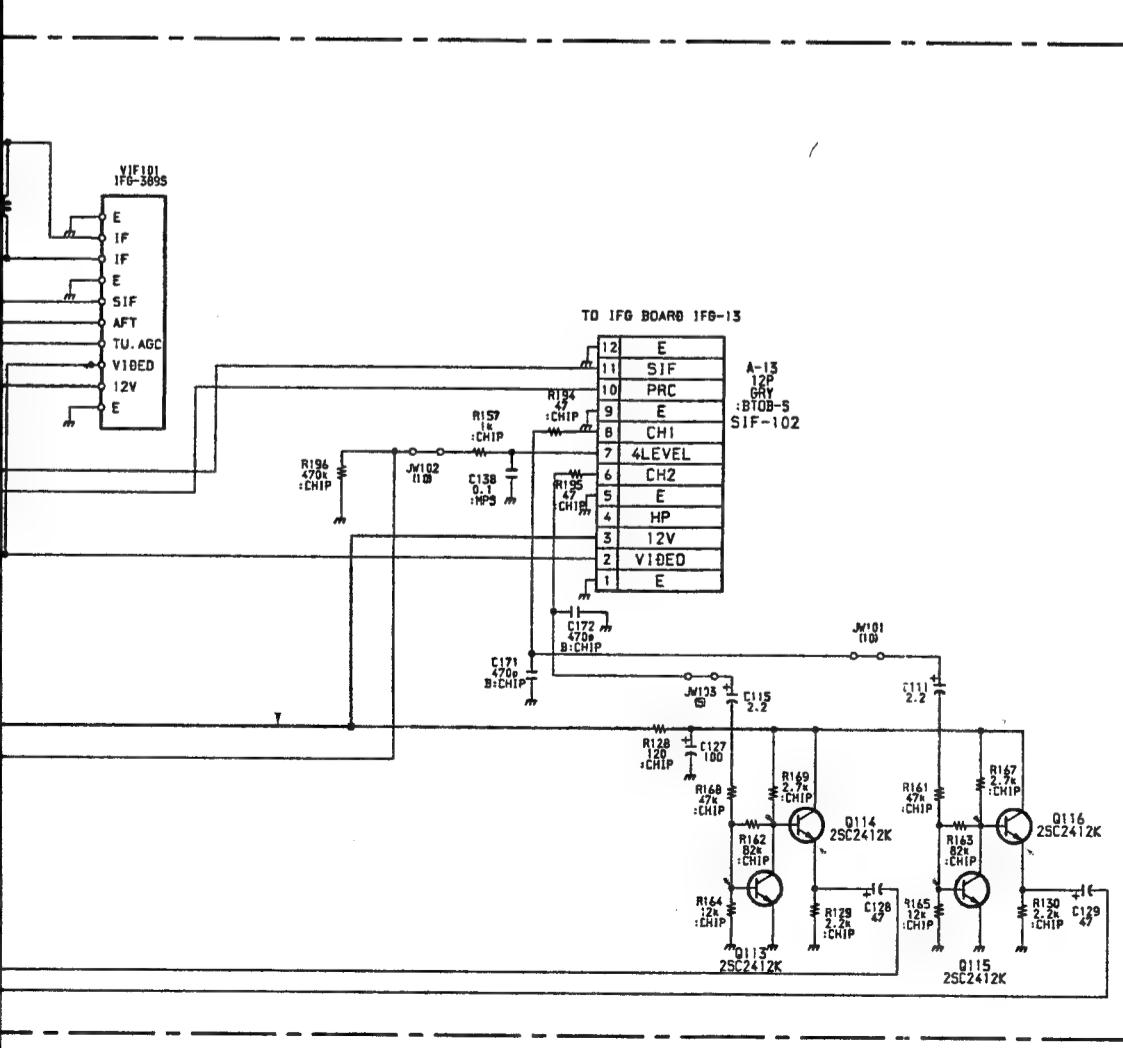
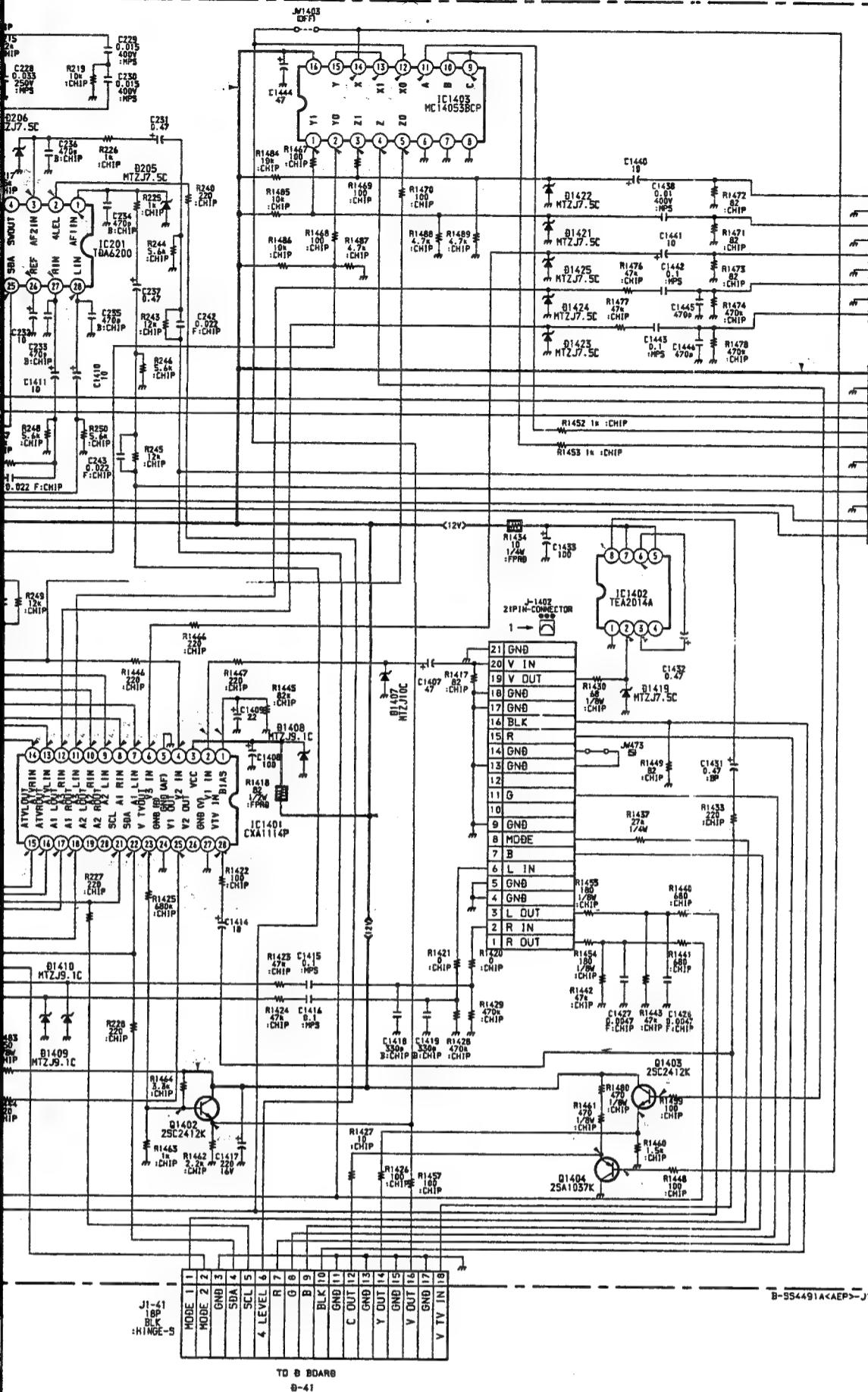
<b>IC1</b>	MICRO-CONT
IC2	IVT
IC3	STATIC-RAM
Q1	STAND-BY
Q2	5V REG
Q3	SYNC BUFFER
Q4	BLK OUT
Q5	B OUT
Q6	G OUT
Q7	R OUT
Q8	RESET
D1	5V REG
D3	PROTECT
D4	PROTECT
D5	PROTECT
D6	PROTECT
D7	PROTECT
D9	PROTECT

**A Board IC103 PCF8574**

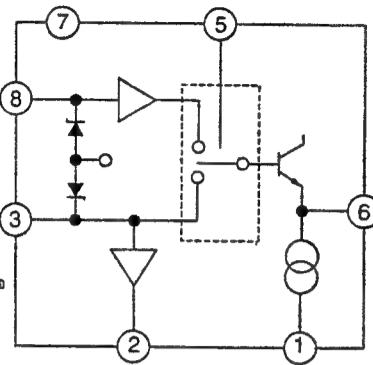


**A**  
TUNER  
SIF, VIF

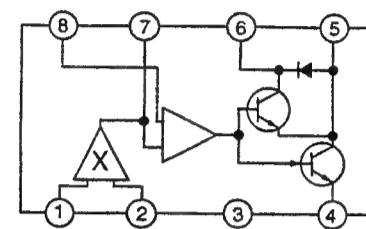




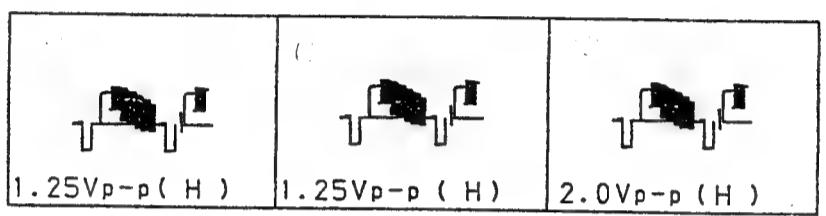
J1 Board IC1402 TEA2014A



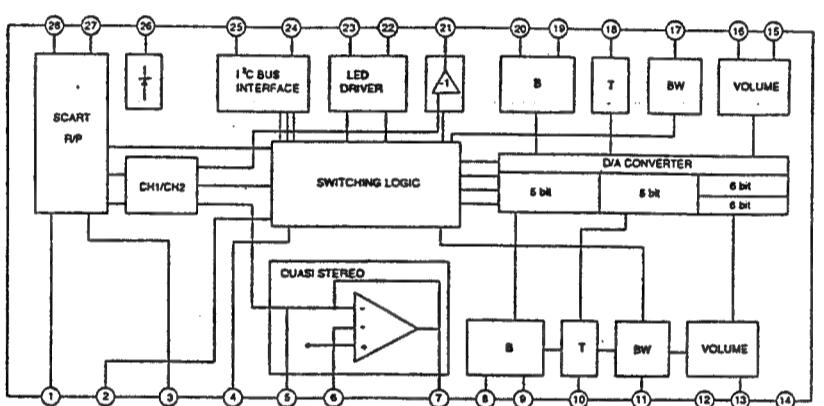
J1 Board IC1501 TEA2031A



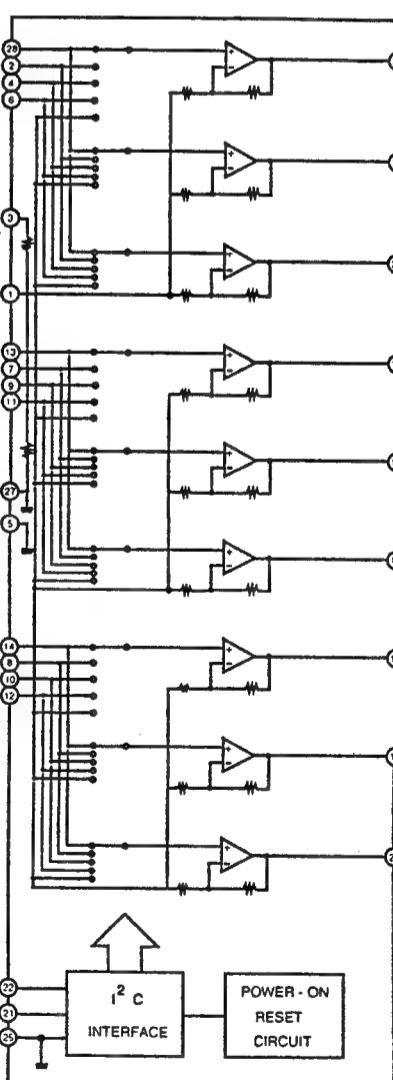
## — J1 Board —



J1 Board IC201 TDA6200



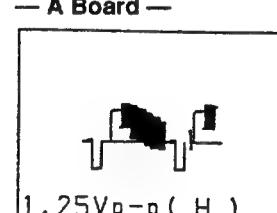
J1 Board IC401 CXA1114P



## — J1 Board —

IC201	AUDIO CONTROL
IC1401	AV SW
IC1402	SCART VIDEO OUT
IC1403	COMPOSITE Y/C SW
IC1501	EAST-WEST CORRECTION
Q201	R AUDIO BUFFER
Q202	L AUDIO BUFFER
Q1401	VIDEO OUT
Q1402	VIDEO OUT BUFFER
Q1403	Y OUT BUFFER
Q1404	C OUT BUFFER
D201	PROTECT
D202	PROTECT
D205	PROTECT
D206	PROTECT
D1401	PROTECT
D1403	PROTECT
D1404	PROTECT
D1405	PROTECT
D1406	PROTECT
D1407	PROTECT
D1408	REGULATOR
D1409	PROTECT
D1410	PROTECT
D1415	PROTECT
D1418	PROTECT
D1419	PROTECT
D1420	PROTECT
D1421	PROTECT
D1422	PROTECT
D1423	PROTECT
D1424	PROTECT
D1425	PROTECT
D1426	PROTECT
D1501	PROTECT
D1502	CLIPPING H SIZE
D1503	CLIPPING V PARABOLA
D1504	CLIPPING H PULSE
D1505	REGULATOR
D1506	PROTECT
D1507	PROTECT
D1510	REGULATOR

## — A Board —



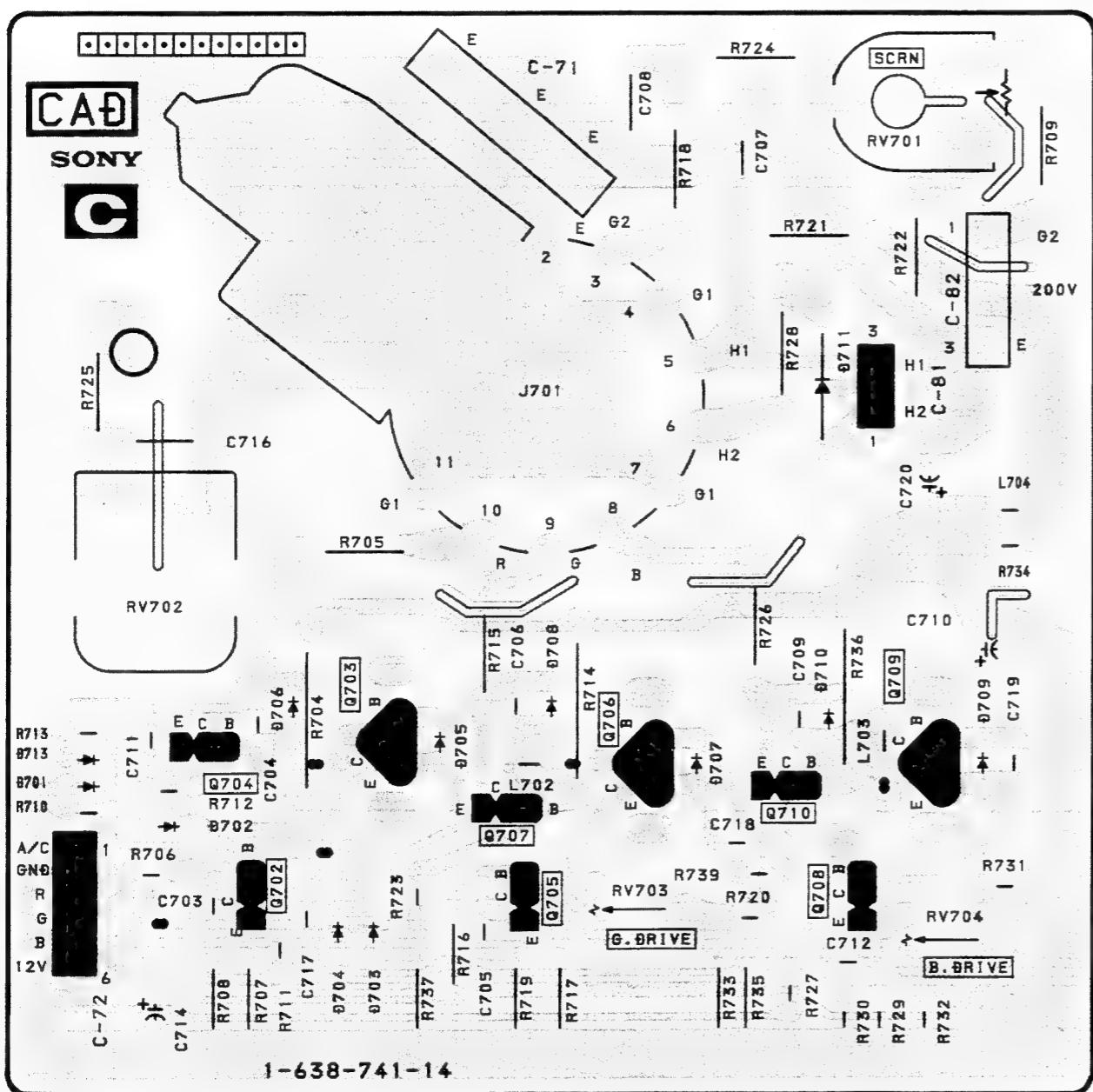
## — A Board —

IC103	EXPANDER
Q113	AUDIO AMP
Q114	AUDIO AMP
Q115	AUDIO AMP
Q116	AUDIO AMP
Q125	MUTE SW
Q126	MUTE SW
Q181	BUFFER

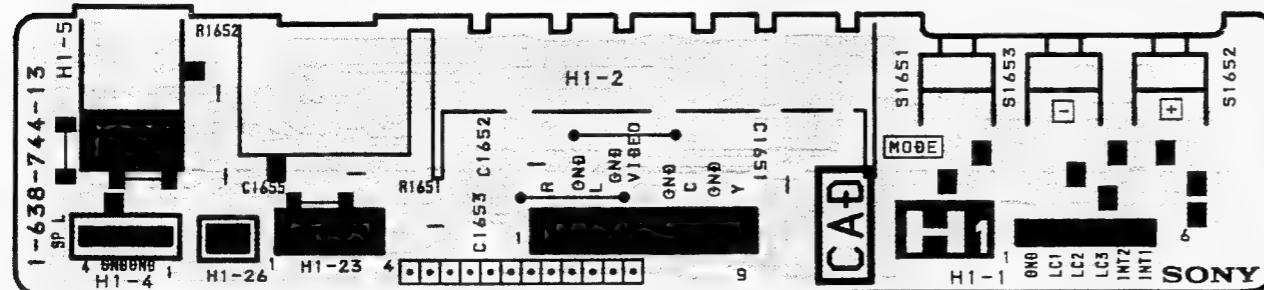
[R.G.B. OUT]

H1 CONTROL SW, AV INPUT,  
HEADPHONE

— C Board —



— H1 Board —

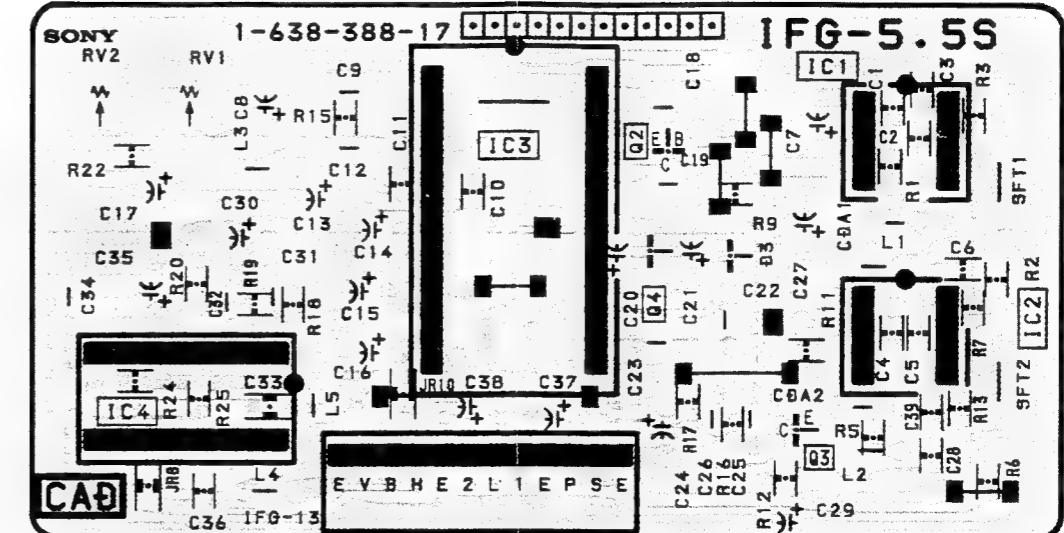


IFG

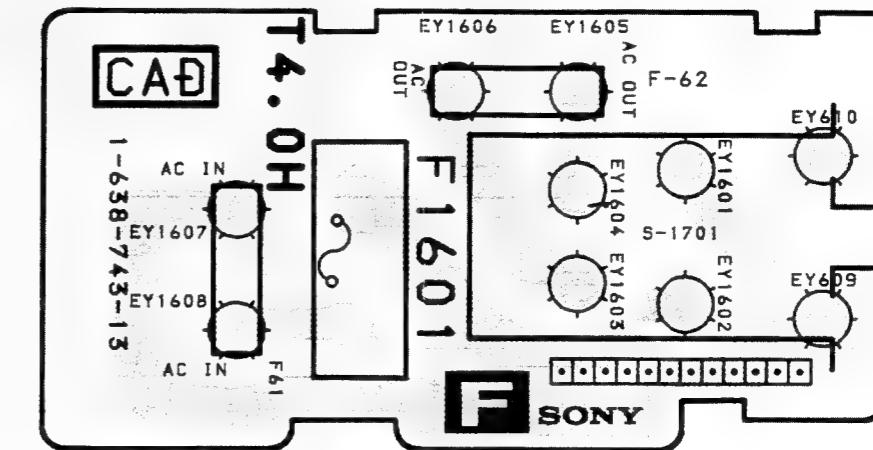
[AC IN POWER SW]

V [TELETEXT]

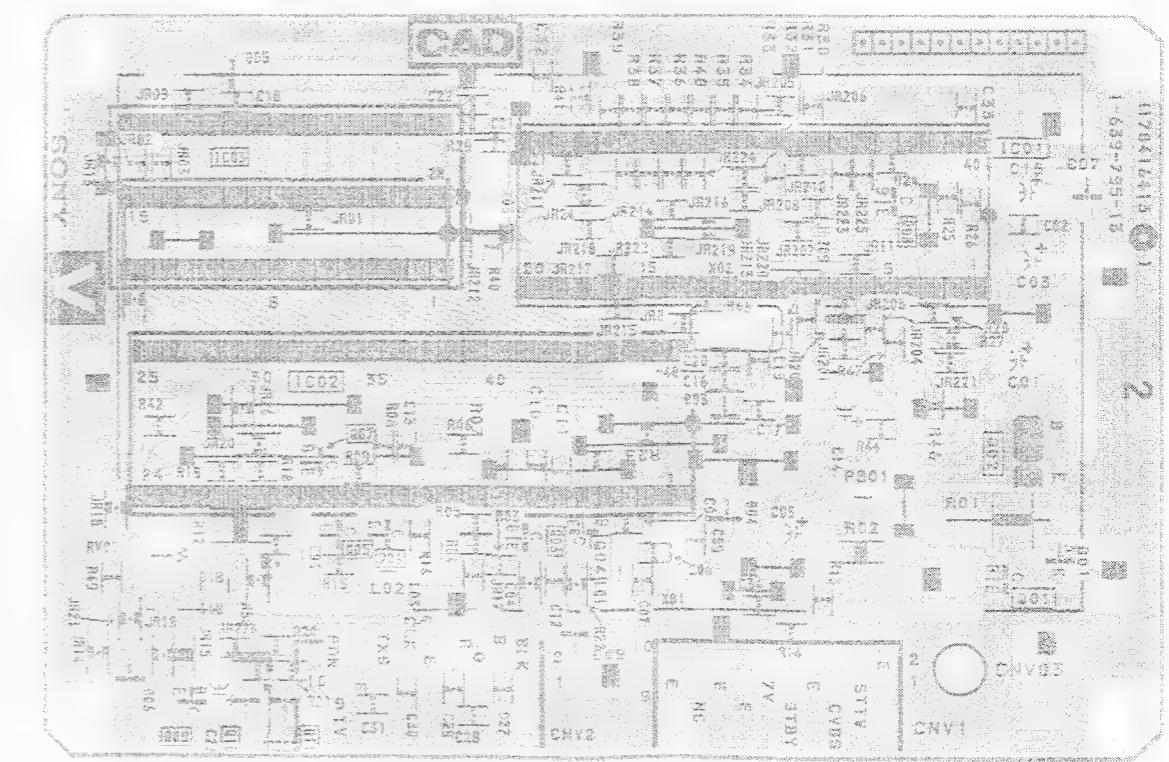
— IFG Board —



— F Board —



— V Board —



A

[TUNER, SIF, VIF]

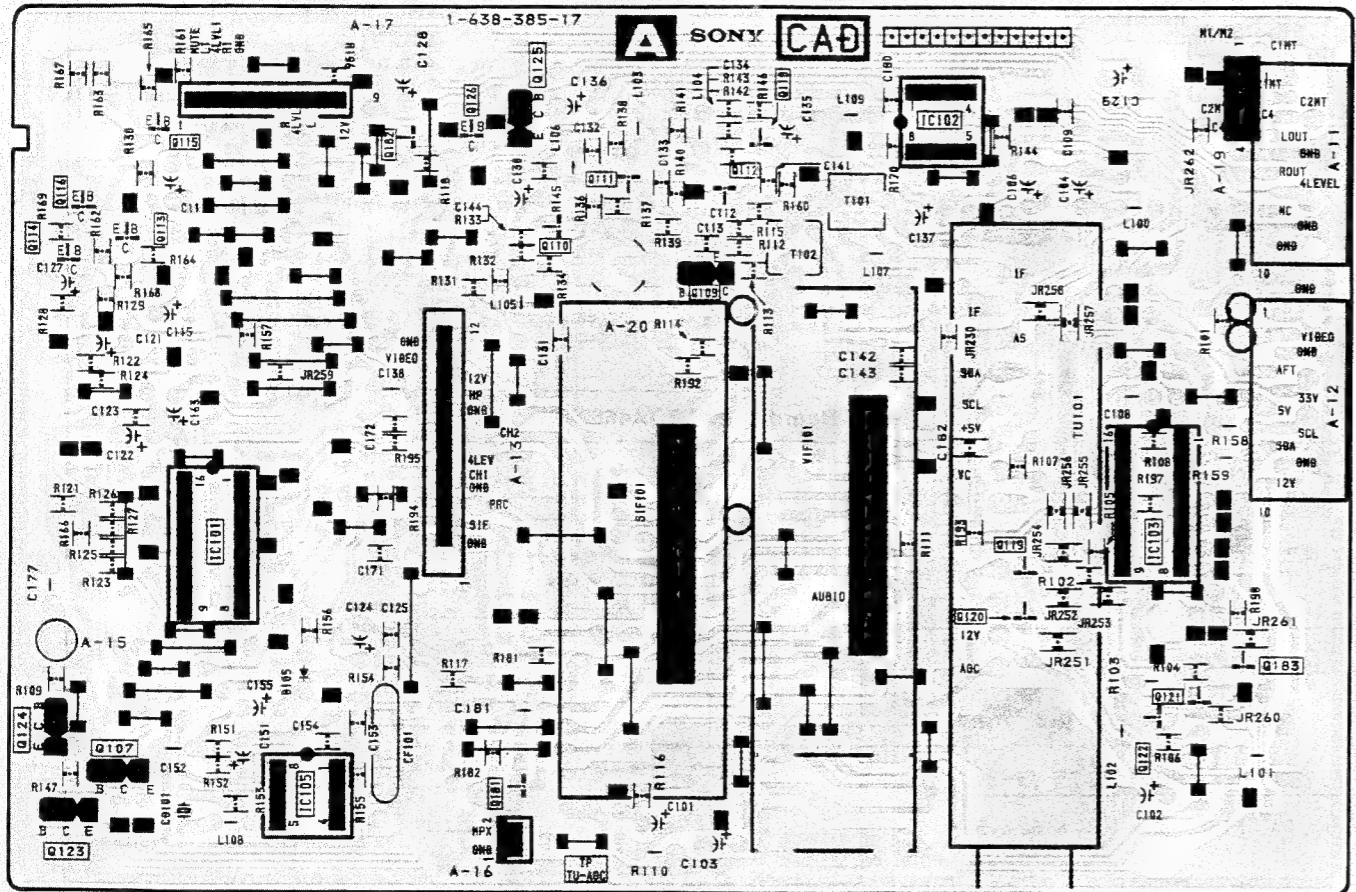
VM

[VM AMP]

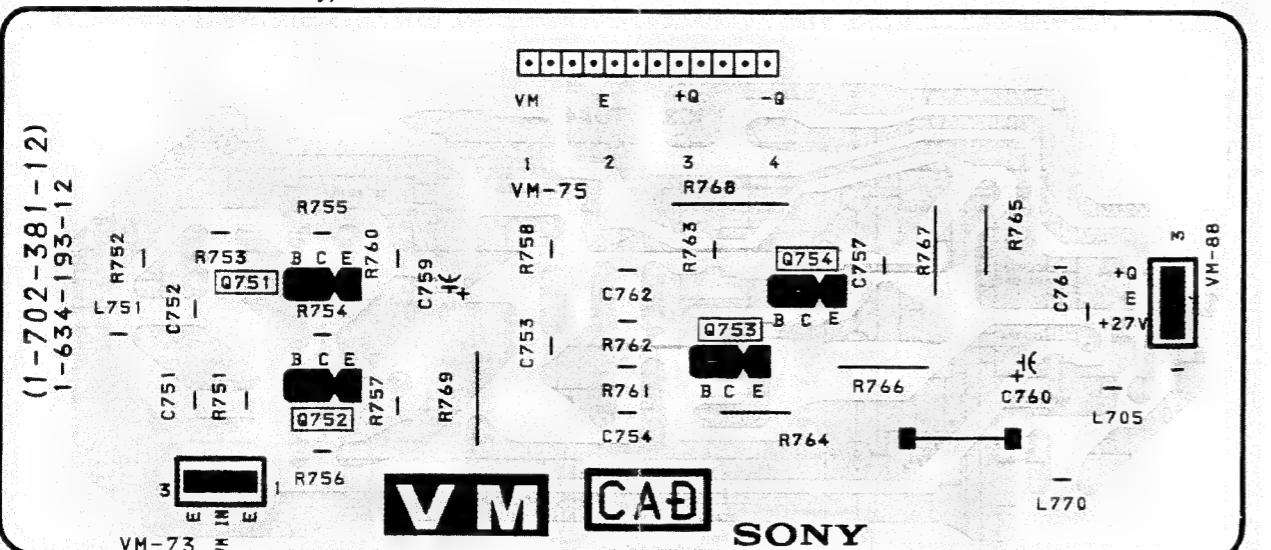
H<sub>2</sub>

## RCS RECEIVER, INDICATOR]

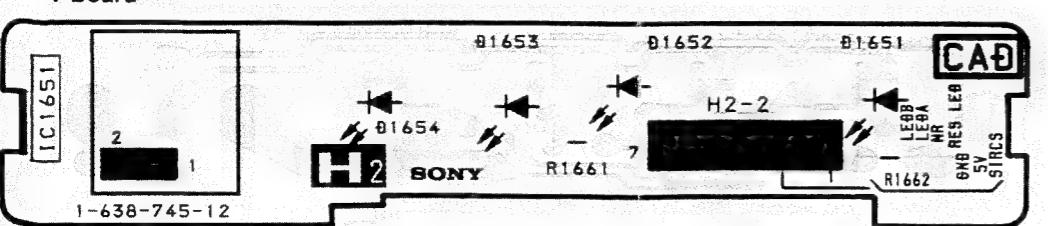
— A Board —



— VM Board — (29 inch only)



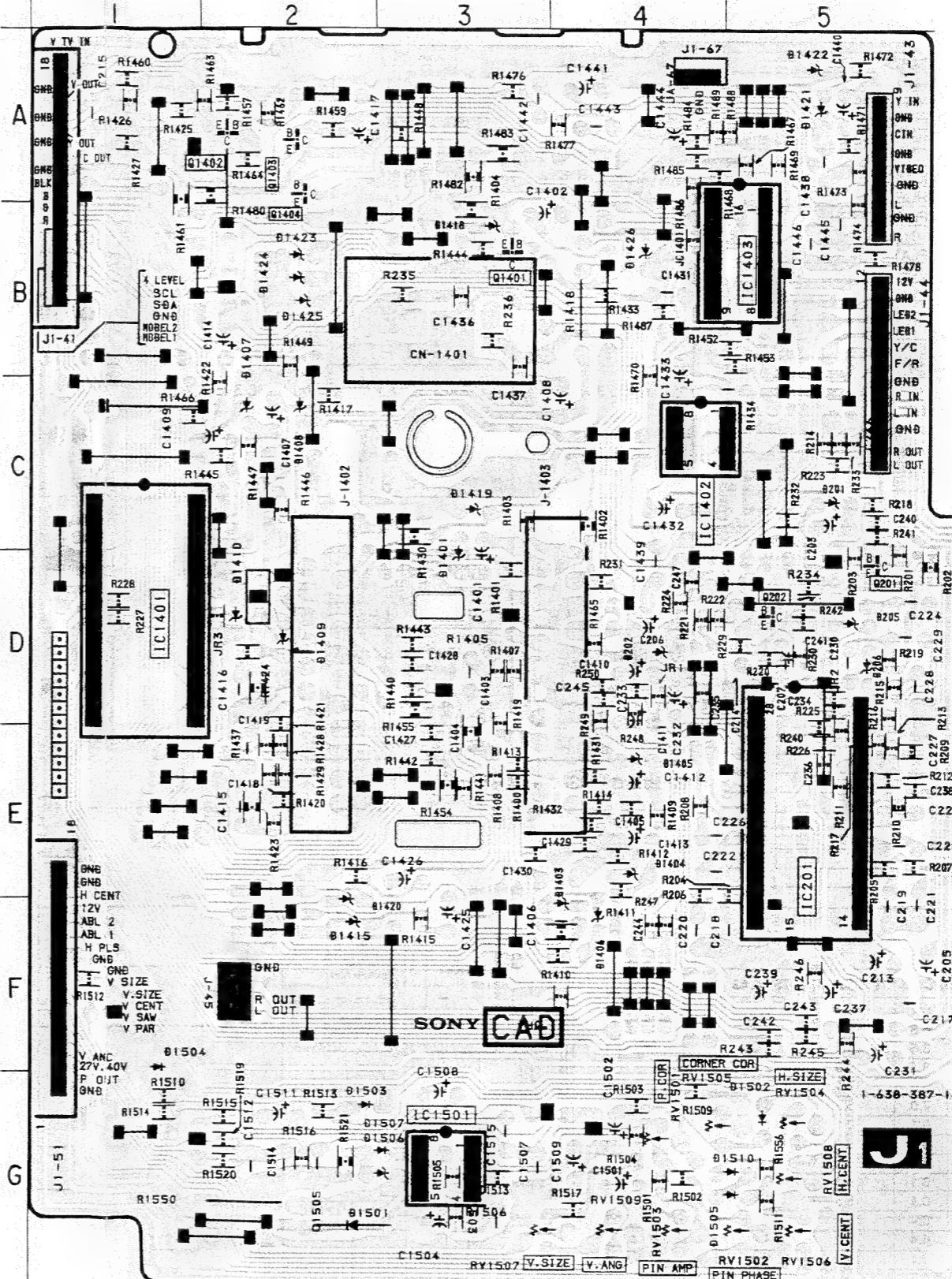
— V Board —



J1

AUDIO CONTROL, AV INPUT  
Y/C INPUT, SCART VIDEO OUT  
EAST-WEST CORRECTION

**— J1 Board —**



— J1 Board —

**IC**

IC201	E-5
IC1401	D-1
IC1402	C-4
IC1403	B-5
IC1501	G-3

TRANSISTOR

Q201	D-5
Q202	D-5
Q1401	B-3
Q1402	A-2
Q1403	A-2
Q1404	B-2

**DIODE**

D201	C-5
D202	D-4
D205	D-5
D206	D-5
D1401	C-3
D1403	E-4
D1404	E-4
D1405	E-4
D1406	F-4
D1407	B-2
D1408	C-2
D1409	D-2
D1410	D-2
D1415	F-2
D1418	B-3
D1419	C-2
D1420	F-2
D1421	A-5
D1422	A-5
D1423	B-2
D1424	B-2
D1425	B-2
D1426	B-4
D1501	G-2
D1502	G-5
D1503	G-2
D1504	F-1
D1505	G-4
D1506	G-3
D1507	G-3
D1510	G-5

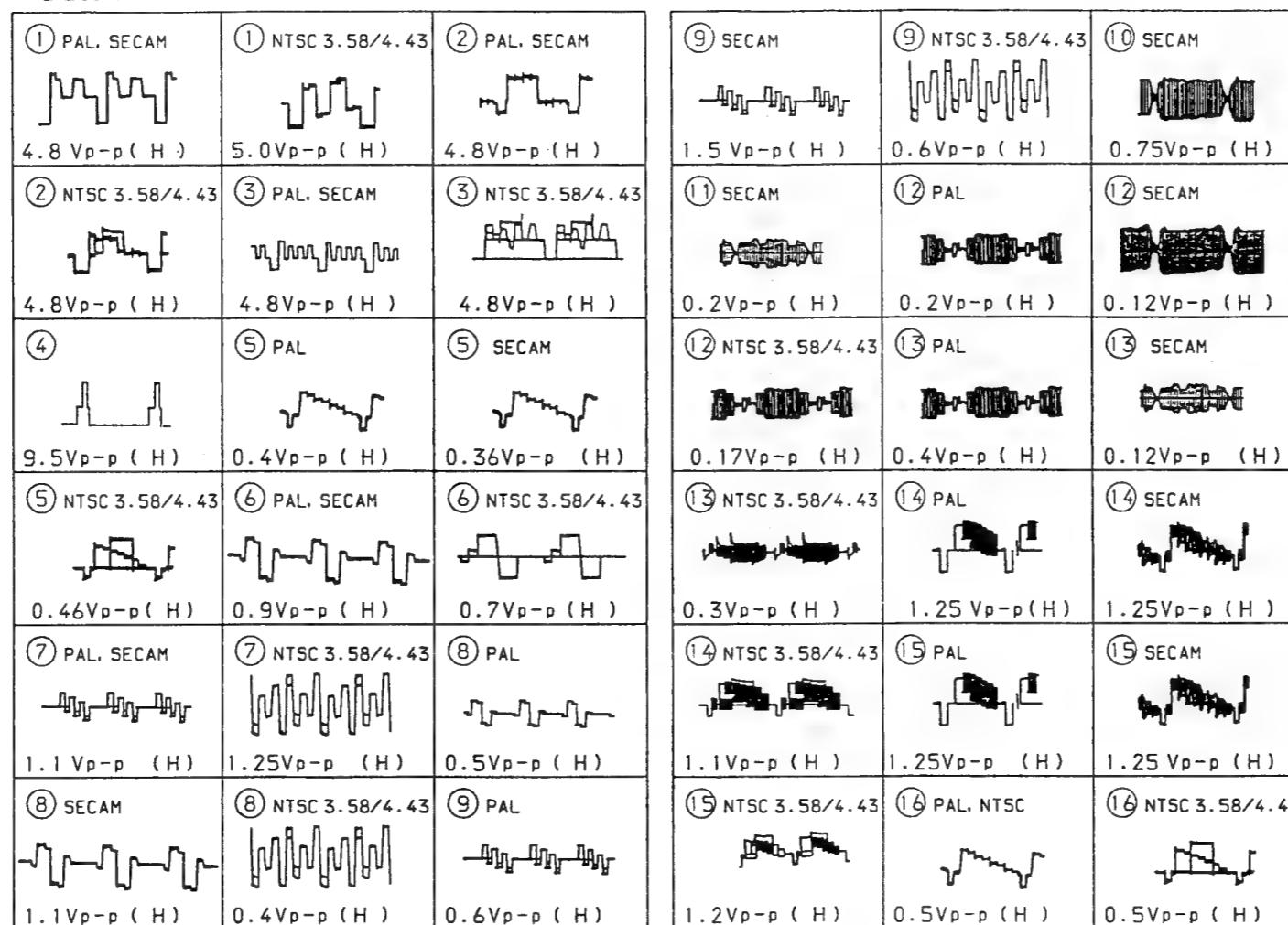
## VARIABLE RESISTOR

RV1501	G-4
RV1502	G-5
RV1503	G-4
RV1504	G-5
RV1505	G-5
RV1506	G-5
RV1507	G-3
RV1508	G-5
RV1509	G-4

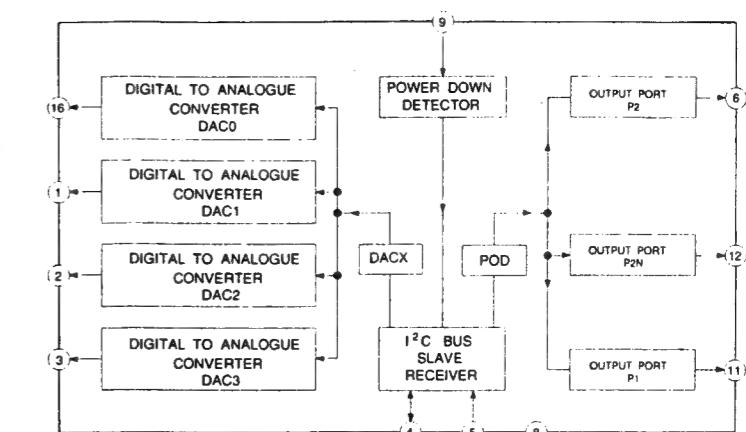
— B Board —

IC301	VIDEO PROCESSOR
IC302	D/A CONVERTER
IC303	Y/C COMP SWITCH
IC331	COLOR PROCESSOR
IC332	IH-DELAY
IC1301	SHARPNESS CONTROL (29 inch)
Q301	Y AMP (21,25 inch)
Q303	STBY SWITCH
Q305	ANTI PRIORITY SCART
Q306	VIDEO BUFFER (HUE)
Q311	ON SCREEN DISPLAY SWITCH
Q312	CANRL +BLK
Q313	ON SCREEN DISPLAY
Q316	FAS PICTURE MUTE SWITCH
Q330	VIDEO AMP
Q331	NTSC SWITCH
Q332	VIDEO BUFFER
Q333	Y AMP
Q334	PAL/NTSC SWITCH
Q335	SECAM SWITCH
Q381	MUTE
Q1301	Y BUFFER
Q1305	Y OUT (29 inch)
Q1306	Y OUT
D301	ACO AT STBY
D302	ACO AT STBY
D303	ACO AT STBY
D304	DECOUPLING BLK
D305	PROTECT
D307	PROTECT
D309	PROTECT
D310	PROTECT
D311	PROTECT
D312	PROTECT
D313	PROTECT
D314	PROTECT
D315	PROTECT
D316	PROTECT
D317	PROTECT
D318	PROTECT
D319	PROTECT
D320	PROTECT
D331	SECAM SWITCH
D332	SECAM SWITCH
D333	SECAM SWITCH
D350	PROTECT

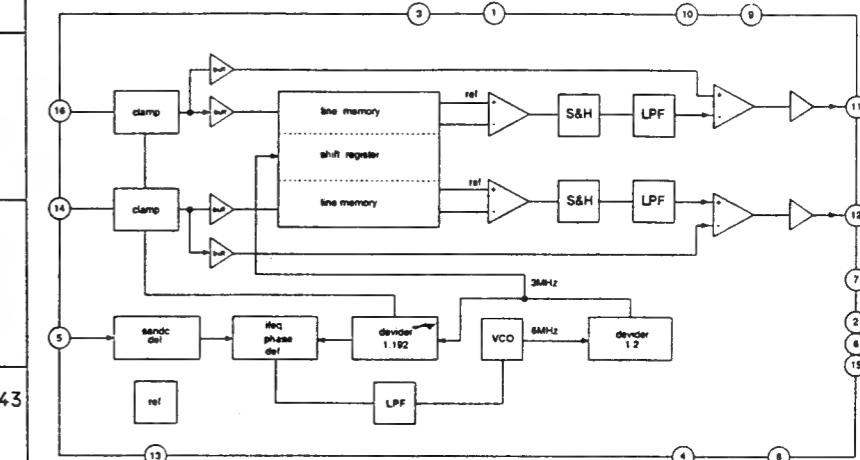
— B Board —



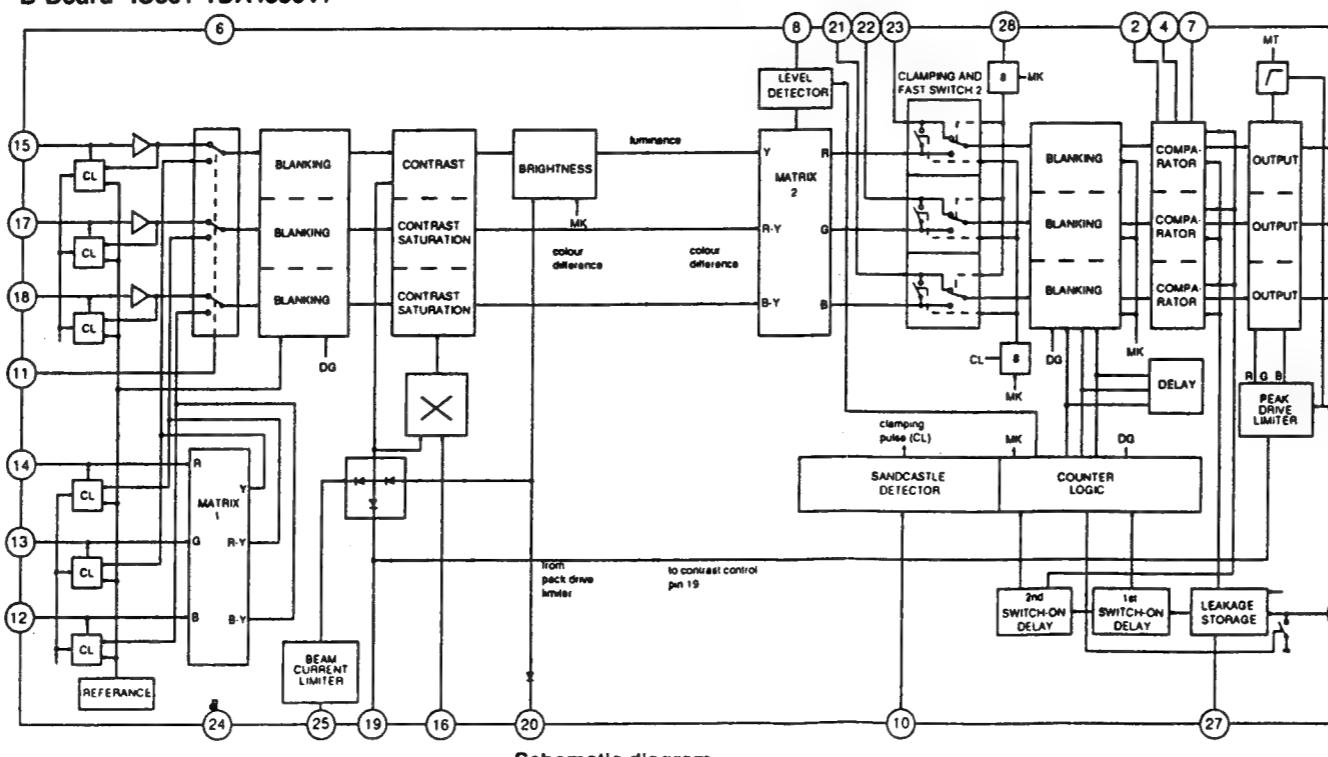
— B Board IC302 TDA8442-N3



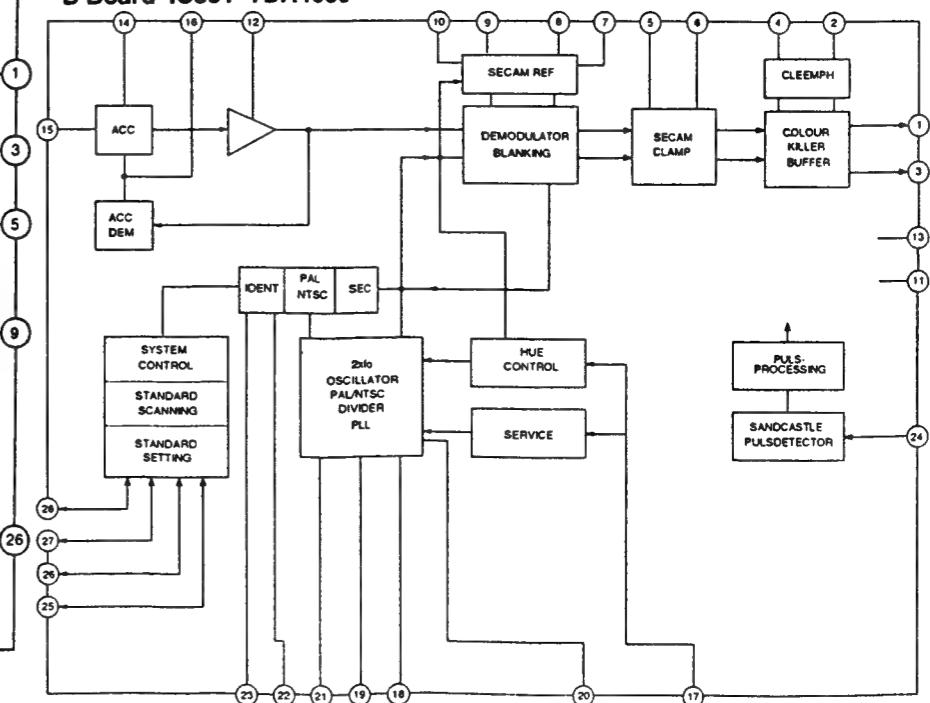
— B Board IC332 TDA4660V2



— B Board IC301 TDA4580V7



— B Board IC331 TDA4650



1      |      2      |      3      |      4      |      5      |      6      |      7      |      8      |      9      |      10      |      11      |      12      |      13      |      14      |      15

A

8

1

1

10

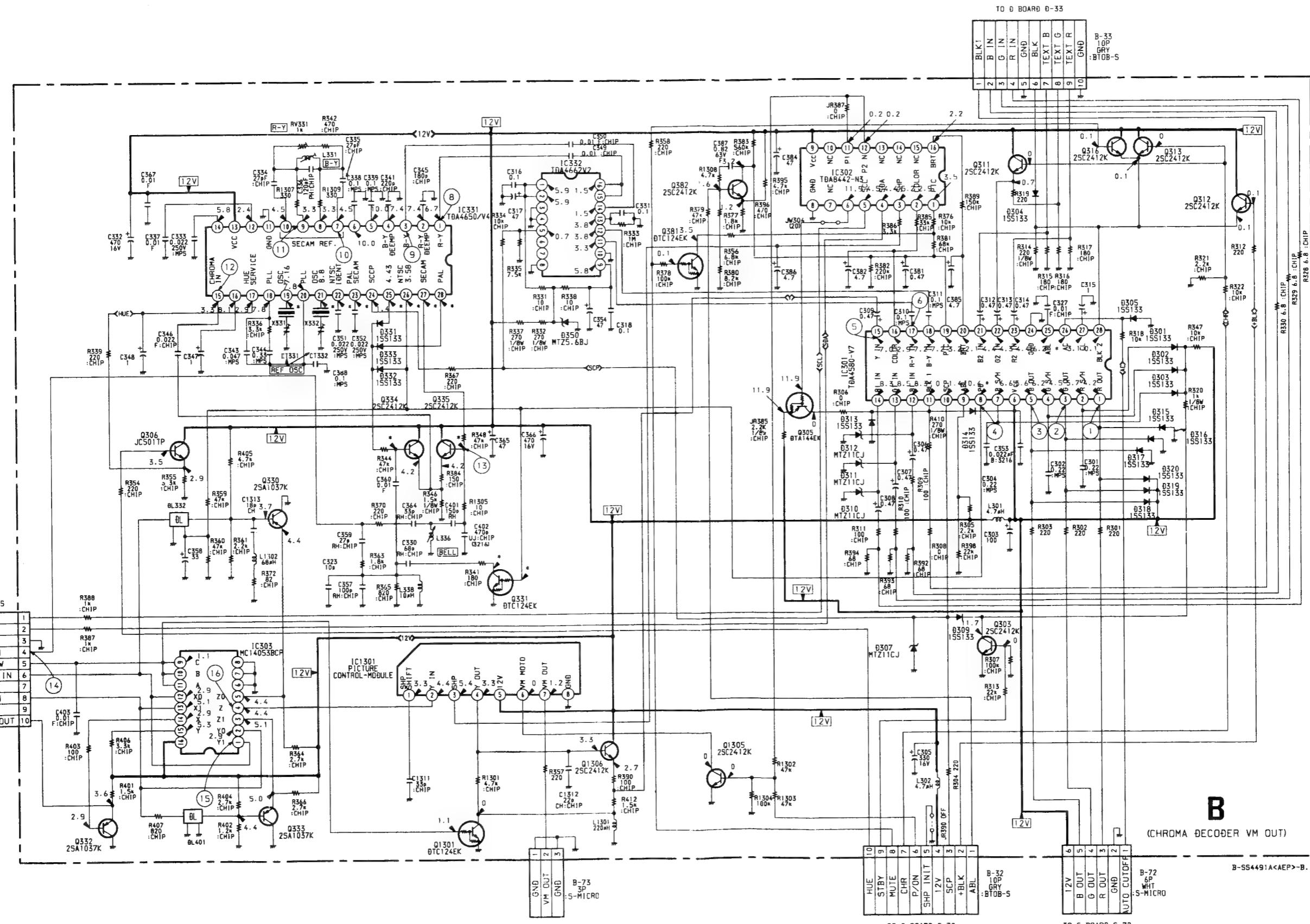
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1

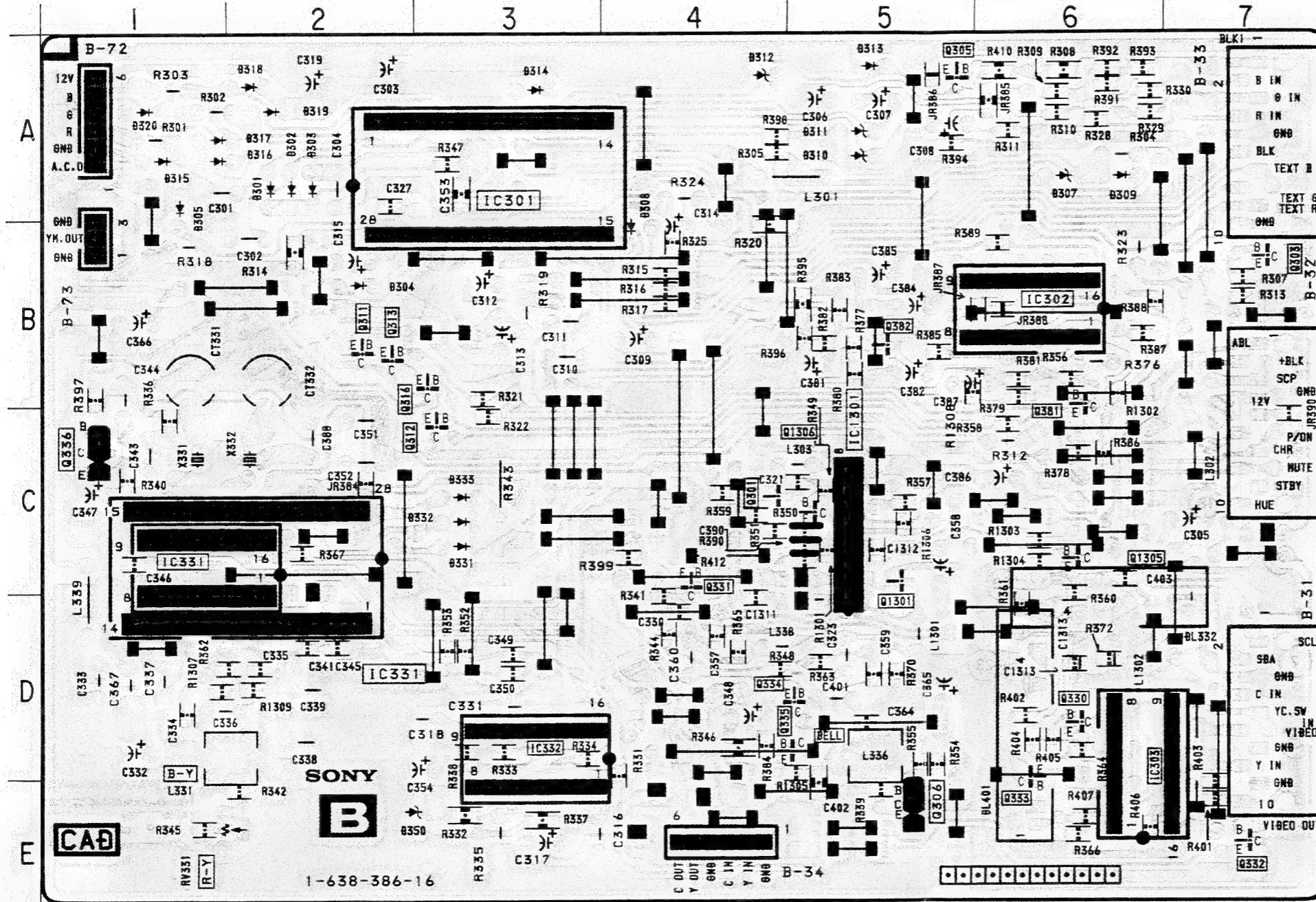
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1



**B** [CHROMA DECODER]

— B Board —



— B Board —

IC	
IC301	A-3
IC302	B-6
IC303	D-6
IC331	C-1
IC332	D-3
IC1301	C-5
TRANSISTOR	
Q303	B-7
Q305	A-5
Q306	E-5
Q311	B-2
Q312	C-2
Q313	B-2
Q316	B-2
Q330	D-6
Q331	C-4
Q332	E-7
Q333	E-6
Q334	D-4
Q335	D-4
Q381	C-6
Q382	B-5
Q1301	D-5
Q1305	C-6
Q1306	C-5
DIODE	
D301	A-2
D302	A-2
D303	A-2
D304	B-2
D305	A-1
D307	A-6
D309	A-6
D310	A-5
D311	A-5
D312	A-4
D313	A-5
D314	A-3
D315	A-1
D316	A-2
D317	A-2
D318	A-2
D319	A-2
D320	A-1
D331	C-3
D332	C-3
D333	C-3
D350	E-2
VARIABLE RESISTOR	
RV331	E-1

## SECTION 2

### EXPLODED VIEWS

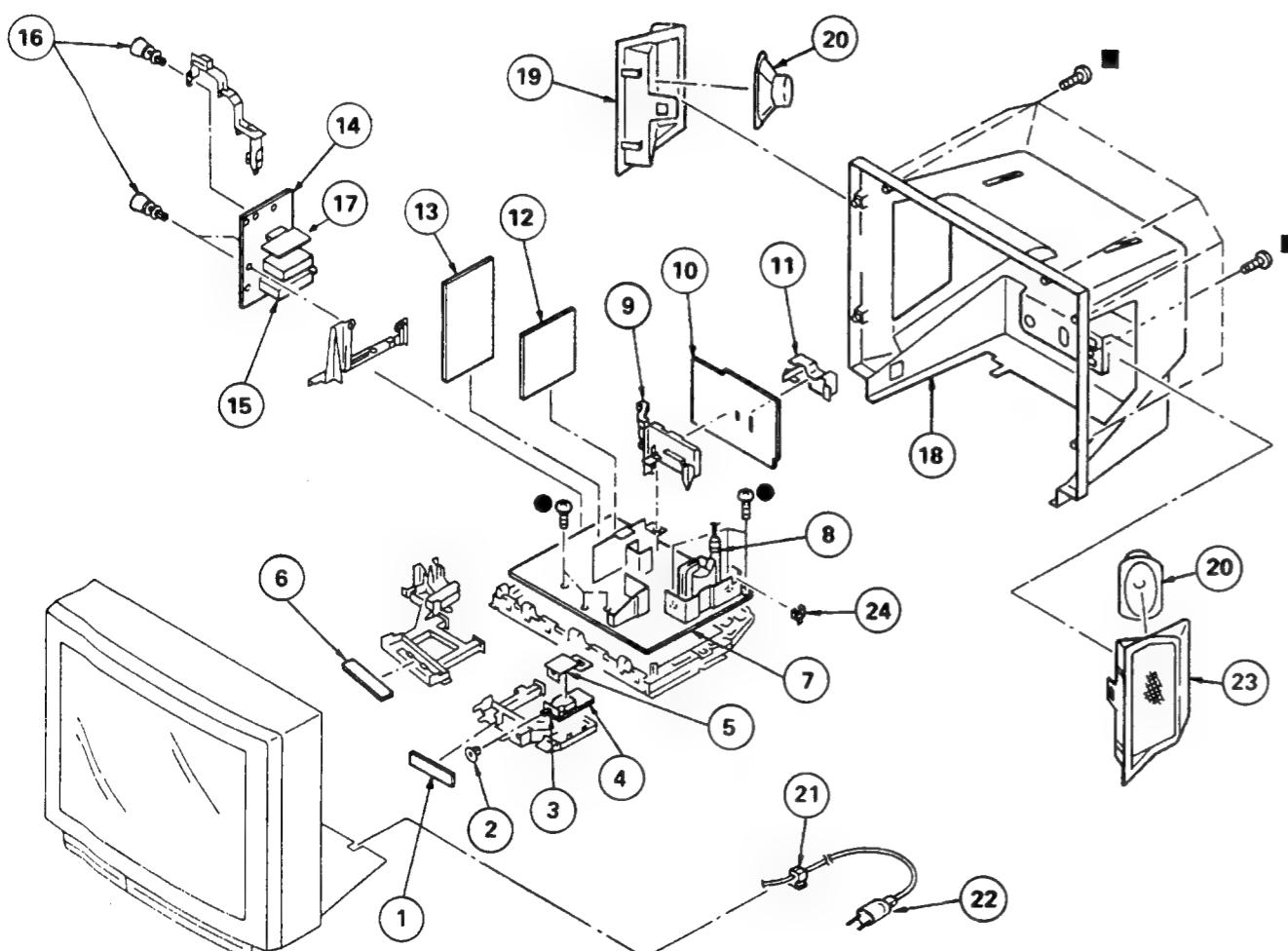
## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

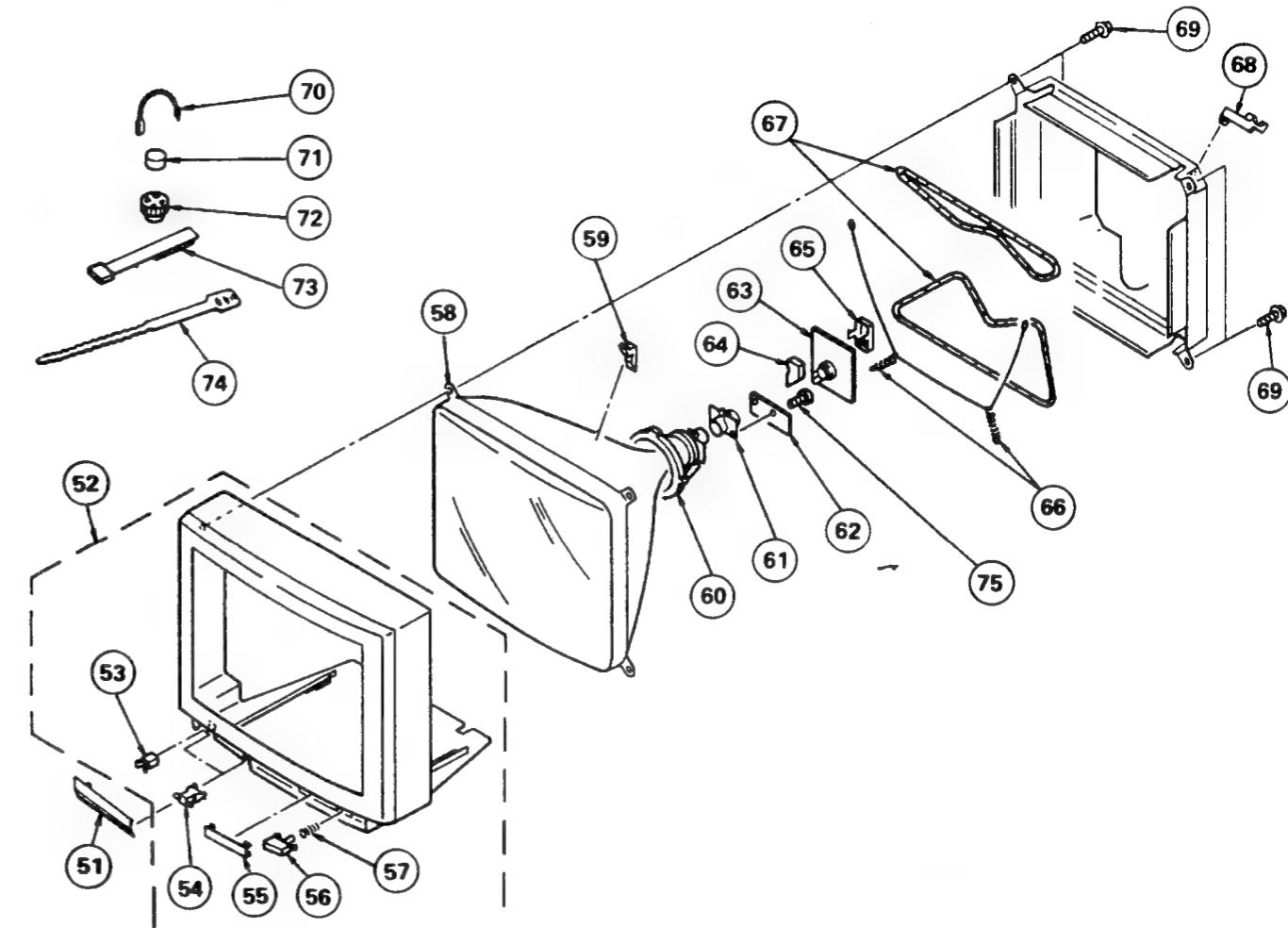
The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

## 2-1. CHASSIS

● : BVTP3x12 7-685-648-79  
■ : BVTP4x16 7-658-663-79



## 2-2. PICTURE TUBE



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-745-11	H2 BOARD		12	*A-1645-022-A	V BOARD, COMPLETE	
2	4-386-611-11	COVER, SWITCH		13	*A-1621-051-A	B BOARD, COMPLETE	
3	A-1-571-433-12	SWITCH, PUSH (AC POWER)		14	A-1632-054-A	A BOARD, COMPLETE	
4	*A-1624-008-A	F BOARD, COMPLETE		15	1-465-611-11	TUNER, ET	
5	4-200-274-11	COVER, POWER SWITCH		16	4-386-618-01	RIVET, T TYPE	
6	*1-638-744-11	H1 BOARD		17	A-1654-005-A	IFG BOARD, COMPLETE	
7	*A-1642-119-A	D BOARD, COMPLETE		18	4-398-910-21	COVER, REAR	
8	A-1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604)		19	X-4398-901-2	BOARD ASSY (L), BAFFLE	
9	*4-386-624-01	BRACKET, J		20	1-544-525-11	SPEAKER	
10	*A-1651-063-A	J BOARD, COMPLETE		21	A-4-389-201-11	HOLDER, AC CORD	
11	4-200-014-11	BRACKET, TERMINAL		22	A-1-690-296-11	CORD, POWER(WITH NOISE FILTER) 2.5A/250V	
				23	*X-4398-901-2	BOARD ASSY (R), BAFFLE	
				24	*3-646-071-00	HOLDER, WIRE	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-398-911-31	DOOR, CONTROL		64	*4-379-167-01	COVER (MAIN), CV	
52	X-4398-902-7	CABINET ASSY (WITH BEZEL ASSY)	53-57	65	*4-379-160-01	COVER (REAR LID), CV	
53	4-392-036-01	CATCHER, PUSH		66	4-369-318-21	SPRING, TENSION	
54	4-202-555-01	SHAFT, DOOR		67	A-1-426-398-11	COIL, DEMAGNETIZATION	
55	4-200-148-01	WINDOW, ORNAMENTAL		68	*4-387-284-01	HOLDER, LEAD	
56	4-200-150-11	BUTTON, POWER		69	4-036-188-01	SCREW (M), PT	
57	4-329-112-41	SPRING		70	4-308-870-00	CLIP, LEAD WIRE	
58	A-8-733-831-05	PICTURE TUBE (A68JYL61X)		71	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
59	A-3-704-495-01	SPACER, DY		72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
60	A-1-451-313-21	DEFLECTION YOKE (Y29FXA)		73	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
61	A-1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
62	*1-634-193-11	VM BOARD (KV-X2941D)		74	3-701-007-00	BAND, BINDING	
63	*A-1638-043-A	C BOARD, COMPLETE		75	4-039-356-01	SCREW (3X12), (+) BV TAPPING	

## **SECTION 3**

### **ELECTRICAL PARTS LIST**

B

**NOTE:**

The components identified by shading and mark **▲** are critical for safety.  
Replace only with part number.

Replace only with part number specified.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted

When indicating parts by reference number,  
please include the board name.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu\mu$ F

COILS  
MH: mH, UH: uH

## RESISTORS

- All resistors are in ohms
  - F: nonflammable

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D331	8-719-901-33	DIODE 1SS133		R312	1-249-409-11	CARBON	220 5% 1/4W
D332	8-719-901-33	DIODE 1SS133		R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D333	8-719-901-33	DIODE 1SS133		R314	1-216-182-91	METAL GLAZE	220 5% 1/8W
D350	8-719-109-89	DIODE RD5.6ESB2		R315	1-216-031-00	METAL GLAZE	180 5% 1/10W
		<DELAY LINE>		R316	1-216-031-00	METAL GLAZE	180 5% 1/10W
DL332	1-236-062-11	MODULE, Y DELAY LINE		R317	1-216-031-00	METAL GLAZE	180 5% 1/10W
DL401	1-415-613-11	DELAY LINE, Y		R318	1-249-429-11	CARBON	10K 5% 1/4W
		<IC>		R319	1-249-409-11	CARBON	220 5% 1/4W
IC301	8-759-517-43	IC TDA4580-V7		R320	1-216-198-91	METAL GLAZE	1K 5% 1/8W
IC302	8-759-980-60	IC TDA8442N3		R321	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
IC303	8-759-140-53	IC UPD4053BC		R322	1-216-049-00	METAL GLAZE	1K 5% 1/10W
IC331	8-759-521-22	IC TDA4650/V4		R328	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
IC332	8-759-084-91	IC TDA4661/V2		R329	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
IC1301	1-235-534-11	CONTROL MODULE, PICTURE		R330	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
		<COIL>		R331	1-216-001-00	METAL GLAZE	10 5% 1/10W
L301	1-408-405-00	INDUCTOR	4.7UH	R332	1-216-184-00	METAL GLAZE	270 5% 1/8W
L302	1-408-405-00	INDUCTOR	4.7UH	R333	1-216-121-00	METAL GLAZE	1M 5% 1/10W
L331	1-404-554-11	COIL		R334	1-216-073-00	METAL GLAZE	10K 5% 1/10W
L336	1-404-554-11	COIL		R335	1-247-852-11	CARBON	7.5K 5% 1/4W
L338	1-408-409-00	INDUCTOR	10UH	R336	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
L1301	1-408-425-00	INDUCTOR	220UH	R337	1-216-184-00	METAL GLAZE	270 5% 1/8W
L1302	1-408-419-00	INDUCTOR	68UH	R338	1-216-001-00	METAL GLAZE	10 5% 1/10W
		<TRANSISTOR>		R339	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q303	8-729-920-74	TRANSISTOR 2SC2412K-QR		R341	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q305	8-729-901-06	TRANSISTOR DTA144EK		R342	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R344	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q311	8-729-920-74	TRANSISTOR 2SC2412K-QR		R346	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR		R347	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR		R348	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q316	8-729-920-74	TRANSISTOR 2SC2412K-QR		R354	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R355	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q331	8-729-901-00	TRANSISTOR DTC124EK		R356	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R357	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q333	8-729-216-22	TRANSISTOR 2SA1162-G		R358	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q334	8-729-920-74	TRANSISTOR 2SC2412K-QR		R359	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q335	8-729-920-74	TRANSISTOR 2SC2412K-QR		R360	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q381	8-729-901-00	TRANSISTOR DTC124EK		R361	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q382	8-729-920-74	TRANSISTOR 2SC2412K-QR		R363	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
Q333	8-729-901-00	TRANSISTOR DTC124EK		R364	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
Q334	8-729-920-74	TRANSISTOR 2SC2412K-QR		R365	1-216-047-00	METAL GLAZE	820 5% 1/10W
Q335	8-729-920-74	TRANSISTOR 2SC2412K-QR		R366	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
Q381	8-729-901-00	TRANSISTOR DTC124EK		R370	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q382	8-729-920-74	TRANSISTOR 2SC2412K-QR		R372	1-216-023-00	METAL GLAZE	82 5% 1/10W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R376	1-249-429-11	CARBON	10K 5% 1/4W
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R377	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R378	1-216-097-00	METAL GLAZE	100K 5% 1/10W
		<RESISTOR>		R379	1-216-089-91	METAL GLAZE	47K 5% 1/10W
JR385	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R380	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR387	1-216-295-00	METAL GLAZE	0 5% 1/10W	R381	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R301	1-249-409-11	CARBON	220 5% 1/4W	R382	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R302	1-249-409-11	CARBON	220 5% 1/4W	R383	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R303	1-249-409-11	CARBON	220 5% 1/4W	R384	1-216-029-00	METAL GLAZE	150 5% 1/10W
R304	1-249-409-11	CARBON	220 5% 1/4W	R385	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R386	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R307	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R387	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R308	1-216-296-00	METAL GLAZE	0 5% 1/8W	R388	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R309	1-216-025-00	METAL GLAZE	100 5% 1/10W	R389	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R310	1-216-025-00	METAL GLAZE	100 5% 1/10W	R390	1-216-025-00	METAL GLAZE	100 5% 1/10W
R311	1-216-025-00	METAL GLAZE	100 5% 1/10W	R392	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R393	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R394	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R395	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

**B F A**

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK	
R396	1-216-041-00	METAL GLAZE	470	5%	1/10W	C20	1-126-962-11	ELECT	3.3MF	20%	50V	
R398	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C21	1-163-031-11	CERAMIC CHIP	0.01MF	50V		
R401	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C22	1-163-029-11	CERAMIC CHIP	0.0047MF	50V		
R402	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	C23	1-130-475-00	MYLAR	0.0022MF	5%	50V	
R403	1-216-025-00	METAL GLAZE	100	5%	1/10W	C24	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
R404	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	C25	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
R405	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C26	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V	
R406	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C27	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V	
R407	1-216-047-00	METAL GLAZE	820	5%	1/10W	C28	1-163-029-11	CERAMIC CHIP	0.0047MF	50V		
R410	1-216-184-00	METAL GLAZE	270	5%	1/8W	C29	1-163-029-11	CERAMIC CHIP	0.0047MF	50V		
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C30	1-124-034-51	ELECT	33MF	20%	16V	
R1301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C31	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	
R1302	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C32	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
R1303	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C33	1-124-902-00	ELECT	0.47MF	20%	50V	
R1304	1-216-097-00	METAL GLAZE	100K	5%	1/10W	C34	1-163-029-11	CERAMIC CHIP	0.0047MF	50V		
R1305	1-216-001-00	METAL GLAZE	10	5%	1/10W	C35	1-124-034-51	ELECT	33MF	20%	16V	
R1307	1-216-037-00	METAL GLAZE	330	5%	1/10W	C36	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V	
R1308	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C101	1-124-916-11	ELECT	22MF	20%	50V	
R1309	1-216-037-00	METAL GLAZE	330	5%	1/10W	C102	1-126-103-11	ELECT	470MF	20%	16V	
						C104	1-124-910-11	ELECT	47MF	20%	50V	
						C106	1-124-916-11	ELECT	22MF	20%	50V	
		<VARIABLE RESISTOR>										
RV331	1-241-761-11	RES, ADJ, CARBON	1K			C108	1-136-165-00	FILM	0.1MF	5%	50V	
						C109	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
		<CRYSTAL>				C111	1-124-925-11	ELECT	2.2MF	20%	50V	
X331	1-567-307-11	OSCILLATOR, CRYSTAL				C115	1-124-925-11	ELECT	2.2MF	20%	50V	
X332	1-567-131-00	OSCILLATOR, CRYSTAL				C127	1-124-122-11	ELECT	100MF	20%	50V	
*****	*****	*****	*****	*****	*****	C128	1-124-910-11	ELECT	47MF	20%	50V	
*A-1624-008-A	F BOARD, COMPLETE					C129	1-124-910-11	ELECT	47MF	20%	50V	
	*****	*****	*****	*****	*****	C138	1-136-165-00	FILM	0.1MF	5%	50V	
						C171	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
						C172	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
		<CONNECTOR>				C177	1-102-074-00	CERAMIC	0.001MF	10%	50V	
F61	*1-580-844-11	PIN, CONNECTOR (POWER)						<CONNECTOR>				
F62	*1-580-844-11	PIN, CONNECTOR (POWER)				A11	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
						A12	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
		<FUSE>				A13	*1-565-503-11	CONNECTOR, BOARD TO BOARD	12P			
F1601A	1-576-231-21	FUSE (H.B.C.)	4A/250V			CN1	1-750-919-11	PIN, CONNECTOR (PC BOARD)	10P			
	1-533-230-11	HOLDER, FUSE; F1601										
								<IC>				
		<SWITCH>				IC1	8-759-996-04	IC TDA8341/N6				
S1701A	1-571-433-12	SWITCH, PUSH (AC POWER)				IC2	8-759-516-81	IC TDA2545A-V4				
*****	*****	*****	*****	*****	*****	IC103	8-759-979-62	IC PCF8574				
								<COIL>				
		A-1632-054-A A BOARD, COMPLETE				L2	1-408-410-00	INDUCTOR	12UH			
		*****	*****	*****		L3	1-408-406-00	INDUCTOR	5.6UH			
		1-404-801-11	TRAP, CERAMIC			L4	1-408-407-00	INDUCTOR	6.8UH			
						L6	1-408-397-00	INDUCTOR	1UH			
		<CAPACITOR>				L7	1-408-406-00	INDUCTOR	5.6UH			
C9	1-163-029-11	CERAMIC CHIP	0.0047MF			L8	1-408-406-00	INDUCTOR	5.6UH			
C10	1-124-925-11	ELECT	2.2MF	20%	50V	L100	1-410-683-31	INDUCTOR	560UH			
C11	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	L101	1-408-225-00	INDUCTOR	3.3UH			
C12	1-163-029-11	CERAMIC CHIP	0.0047MF			L102	1-408-413-00	INDUCTOR	22UH			
C13	1-163-029-11	CERAMIC CHIP	0.0047MF			L107	1-408-397-00	INDUCTOR	1UH			
								<TRANSISTOR>				
C14	1-124-034-51	ELECT	33MF	20%	16V	Q1	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
C17	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	Q2	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
C18	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	Q7	8-729-216-22	TRANSISTOR	2SA1162-G			
C19	1-126-176-11	ELECT	220MF	20%	10V							

**A C**

REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
Q113	8-729-920-74	TRANSISTOR 2SC2412K-QR				<VARIABLE RESISTOR>							
Q114	8-729-920-74	TRANSISTOR 2SC2412K-QR								RV1 1-238-550-11 RES, ADJ, CARBON 100K			
Q115	8-729-920-74	TRANSISTOR 2SC2412K-QR				<TRANSFORMER>							
Q116	8-729-920-74	TRANSISTOR 2SC2412K-QR								T1 1-404-493-00 COIL			
Q125	8-729-900-89	TRANSISTOR DTC144ES								T2 1-404-493-00 COIL			
Q126	8-729-901-06	TRANSISTOR DTA144EK								T5 1-404-493-00 COIL			
<RESISTOR>													
JC1	1-216-296-00	METAL GLAZE	0	5%	1/8W	<TUNER>				TU101 1-465-611-11 TUNER, ET			
JR230	1-216-295-00	METAL GLAZE	0	5%	1/10W	<IF BLOCK>				VIF101 1-466-154-11 IF BLOCK (IFG-389S)			
JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W					*****			
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W					R11 1-216-049-00 METAL GLAZE 1K 5% 1/10W			
JR255	1-216-296-00	METAL GLAZE	0	5%	1/8W					R12 1-216-049-00 METAL GLAZE 1K 5% 1/10W			
JR256	1-216-296-00	METAL GLAZE	0	5%	1/8W					R13 1-216-041-00 METAL GLAZE 470 5% 1/10W			
JR257	1-216-296-00	METAL GLAZE	0	5%	1/8W					R14 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W			
JR258	1-216-296-00	METAL GLAZE	0	5%	1/8W					R15 1-216-045-00 METAL GLAZE 680 5% 1/10W			
R9	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W					R16 1-216-029-00 METAL GLAZE 150 5% 1/10W			
R10	1-216-029-00	METAL GLAZE	150	5%	1/10W	<CAPACITOR>				R17 1-216-077-00 METAL GLAZE 15K 5% 1/10W			
R18	1-216-043-00	METAL GLAZE	560	5%	1/10W					R18 1-216-043-00 METAL GLAZE 560 5% 1/10W			
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W					R19 1-216-049-00 METAL GLAZE 1K 5% 1/10W			
R20	1-216-045-00	METAL GLAZE	680	5%	1/10W					R20 1-216-045-00 METAL GLAZE 680 5% 1/10W			
R21	1-216-295-00	METAL GLAZE	0	5%	1/10W					R21 1-216-295-00 METAL GLAZE 0 5% 1/10W			
R22	1-216-093-00	METAL GLAZE	68K	5%	1/10W					C703 1-102-980-00 CERAMIC 270PF 5% 50V			
R23	1-216-031-00	METAL GLAZE	180	5%	1/10W					C704 1-102-116-00 CERAMIC 680PF 10% 50V			
R24	1-216-081-00	METAL GLAZE	22K	5%	1/10W					C705 1-102-978-00 CERAMIC 220PF 5% 50V			
R30	1-216-081-00	METAL GLAZE	22K	5%	1/10W					C706 1-102-116-00 CERAMIC 680PF 10% 50V			
R31	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W					C707 1-162-116-00 CERAMIC 680PF 10% 2KV			
R32	1-216-190-00	METAL GLAZE	470	5%	1/8W					C708 1-162-114-00 CERAMIC 0.0047MF 2KV			
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W					C709 1-102-116-00 CERAMIC 680PF 10% 50V			
R105	1-216-079-00	METAL GLAZE	18K	5%	1/10W					C710 1-102-980-00 CERAMIC 47PF 20% 250V			
R107	1-216-081-00	METAL GLAZE	22K	5%	1/10W					C711 1-101-880-00 CERAMIC 10MF 5% 50V			
R108	1-216-079-00	METAL GLAZE	18K	5%	1/10W					C712 1-102-114-00 CERAMIC 270PF 5% 50V			
R110	1-249-429-11	CARBON	10K	5%	1/4W					C714 1-124-360-00 ELECT 1000MF 20% 16V			
R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W					C716 1-162-622-11 CERAMIC 330PF 10% 400V			
R118	1-216-085-00	METAL GLAZE	33K	5%	1/10W					C717 1-102-114-00 CERAMIC 470PF 10% 50V			
R128	1-216-027-00	METAL GLAZE	120	5%	1/10W					C718 1-102-114-00 CERAMIC 470PF 10% 50V			
R129	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W					C719 1-102-114-00 CERAMIC 470PF 10% 50V			
<CONNECTOR>													
R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W					C71 *1-506-371-00 PIN, CONNECTOR 2P			
R157	1-216-049-00	METAL GLAZE	1K	5%	1/10W					C72 *1-568-881-51 PIN, CONNECTOR 6P			
R158	1-249-409-11	CARBON	220	5%	1/4W					C81 *1-568-878-51 PIN, CONNECTOR 3P			
R159	1-249-409-11	CARBON	220	5%	1/4W					C82 1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P			
R161	1-216-089-91	METAL GLAZE	47K	5%	1/10W								
R162	1-216-095-00	METAL GLAZE	82K	5%	1/10W	<DIODE>				R162 1-216-095-00 METAL GLAZE 82K 5% 1/10W			
R163	1-216-095-00	METAL GLAZE	82K	5%	1/10W					D701 8-719-110-14 DIODE RD9.1ESB3			
R164	1-216-075-00	METAL GLAZE	12K	5%	1/10W					D702 8-719-901-33 DIODE 1SS133			
R165	1-216-075-00	METAL GLAZE	12K	5%	1/10W					D703 8-719-901-33 DIODE 1SS133			
R166	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W					D704 8-719-901-33 DIODE 1SS133			
R167	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W					D705 8-719-901-33 DIODE 1SS133			
R168	1-216-089-91	METAL GLAZE	47K	5%	1/10W					R168 1-216-089-91 METAL GLAZE 47K 5% 1/10W			
R169	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W					D706 8-719-901-33 DIODE 1SS133			
R193	1-216-073-00	METAL GLAZE	10K	5%	1/10W					D707 8-719-901-33 DIODE 1SS133			
R194	1-216-017-00	METAL GLAZE	47	5%	1/10W					D708 8-719-901-33 DIODE 1SS133			
R195	1-216-017-00	METAL GLAZE	47	5%	1/10W					D709 8-719-901-33 DIODE 1SS133			
R196	1-216-113-00	METAL GLAZE	470K	5%	1/10W					D710 8-719-901-33 DIODE ISS133			
										D711 8-719-302-43 DIODE EL1Z			
										D713 8-719-901-33 DIODE ISS133			

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

C D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<JACK>											
J701 $\Delta$	1-526-990-13	SOCKET, PICTURE TUBE		*A-1642-119-A	D BOARD, COMPLETE						
*****											
<COIL>											
L704	1-408-609-41	INDUCTOR	33UH	<CAPACITOR>							
<TRANSISTOR>											
Q702	8-729-119-78	TRANSISTOR	2SC2785-HFE	C002	1-163-205-00	CERAMIC CHIP 0.001MF	5%	50V			
Q703	8-729-906-70	TRANSISTOR	BF871	C003	1-124-925-11	ELECT 2.2MF	20%	50V			
Q704	8-729-200-17	TRANSISTOR	2SA1091-0	C004	1-124-120-11	ELECT 220MF	20%	16V			
Q705	8-729-119-78	TRANSISTOR	2SC2785-HFE	C005	1-124-903-11	ELECT 1MF	20%	50V			
Q706	8-729-906-70	TRANSISTOR	BF871	C008	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
Q707	8-729-200-17	TRANSISTOR	2SA1091-0	C009	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
Q708	8-729-119-78	TRANSISTOR	2SC2785-HFE	C010	1-124-120-11	ELECT 220MF	20%	16V			
Q709	8-729-906-70	TRANSISTOR	BF871	C011	1-163-031-11	CERAMIC CHIP 0.01MF	5%	50V			
Q710	8-729-200-17	TRANSISTOR	2SA1091-0	C013	1-136-165-00	FILM 0.1MF	5%	50V			
<RESISTOR>											
R704	1-216-486-00	METAL OXIDE	8.2K 5%	3W F	C014	1-136-165-00	FILM 0.1MF	5%	50V		
R705	1-202-824-00	SOLID	3.3K 10%	1/2W	C015	1-124-902-00	ELECT 0.47MF	20%	50V		
R706	1-249-409-11	CARBON	220 5%	1/4W	C016	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V		
R707	1-249-412-11	CARBON	390 5%	1/4W	C017	1-136-165-00	FILM 0.1MF	5%	50V		
R708	1-249-401-11	CARBON	47 5%	1/4W	C018	1-163-127-00	CERAMIC CHIP 270PF	5%	50V		
R709	1-202-844-00	SOLID	330K 10%	1/2W	C019	1-106-383-00	MYLAR 0.047MF	10%	100V		
R710	1-215-465-00	METAL	68K 1%	1/4W	C021	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		
R711	1-249-426-11	CARBON	5.6K 5%	1/4W	C023	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		
R712	1-249-417-11	CARBON	1K 5%	1/4W	C024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		
R713	1-215-471-00	METAL	120K 1%	1/4W	C027	1-124-910-11	ELECT 47MF	20%	50V		
R714	1-216-486-00	METAL OXIDE	8.2K 5%	3W F	C030	1-163-038-00	CERAMIC CHIP 0.1MF	20%	25V		
R715	1-202-824-00	SOLID	3.3K 10%	1/2W	C031	1-163-081-00	CERAMIC CHIP 0.22MF		25V		
R716	1-249-409-11	CARBON	220 5%	1/4W	C032	1-163-081-00	CERAMIC CHIP 0.22MF		25V		
R717	1-249-415-11	CARBON	680 5%	1/4W	C033	1-163-181-00	CERAMIC CHIP 100PF	5%	50V		
R718	1-202-814-11	SOLID	33K 20%	1/2W	C034	1-124-907-11	ELECT 10MF	20%	50V		
R719	1-249-401-11	CARBON	47 5%	1/4W	C251	1-124-903-11	ELECT 1MF	20%	50V		
R720	1-249-423-11	CARBON	3.3K 5%	1/4W	C252	1-124-916-11	ELECT 22MF	20%	50V		
R721	1-202-842-11	SOLID	220K 20%	1/2W	C253	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V		
R722	1-202-848-00	SOLID	680K 10%	1/2W	C254	1-136-165-00	FILM 0.1MF	5%	50V		
R723	1-249-417-11	CARBON	1K 5%	1/4W	C255	1-124-636-00	ELECT 3300MF	20%	25V		
R724	1-202-846-00	SOLID	470K 20%	1/2W	C261	1-124-903-11	ELECT 1MF	20%	50V		
R725	1-202-838-00	SOLID	100K 20%	1/2W	C262	1-124-916-11	ELECT 22MF	20%	50V		
R726	1-202-824-00	SOLID	3.3K 10%	1/2W	C263	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V		
R727	1-249-409-11	CARBON	220 5%	1/4W	C264	1-136-165-00	FILM 0.1MF	5%	50V		
R728	1-216-347-11	METAL OXIDE	0.68 5%	1W F	C265	1-124-564-11	ELECT 4700MF	20%	25V		
R729	1-249-416-11	CARBON	820 5%	1/4W	C270	1-130-785-11	MYLAR 0.47MF	10%	100V		
R730	1-249-401-11	CARBON	47 5%	1/4W	C274	1-130-785-11	MYLAR 0.47MF	10%	100V		
R731	1-249-423-11	CARBON	3.3K 5%	1/4W	C501	1-124-927-11	ELECT 4.7MF	20%	50V		
R732	1-249-415-11	CARBON	680 5%	1/4W	C502	1-124-927-11	ELECT 4.7MF	20%	50V		
R733	1-249-415-11	CARBON	680 5%	1/4W	C503	1-136-204-11	MYLAR 0.015MF	10%	400V		
R734	1-247-807-31	CARBON	100 5%	1/4W	C504	1-163-121-00	CERAMIC CHIP 150PF	5%	50V		
R735	1-215-493-00	METAL	1M 1%	1/4W	C505	1-137-365-11	FILM 0.0015MF	5%	50V		
R736	1-216-486-00	METAL OXIDE	8.2K 5%	3W F	C506	1-106-375-12	MYLAR 0.022MF	10%	250V		
R737	1-215-485-00	METAL	470K 1%	1/4W	C507	1-136-171-00	FILM 0.33MF	5%	50V		
R738	1-249-417-11	CARBON	1K 5%	1/4W	C508	1-106-375-12	MYLAR 0.022MF	10%	250V		
R739	1-249-415-11	CARBON	680 5%	1/4W	C509	1-136-165-00	FILM 0.1MF	5%	50V		
<VARIABLE RESISTOR>											
RV701	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M		C510	1-161-959-00	CERAMIC 22PF	10%	50W		
RV702 $\Delta$	1-230-619-11	RES, ADJ, METAL GLAZE	110M		C511	1-137-413-11	FILM 0.0033MF	10%	10W		
RV703	1-237-749-11	RES, ADJ, CARBON	2200		C512	1-136-165-00	FILM 0.1MF	5%	50V		
RV704	1-237-749-11	RES, ADJ, CARBON	2200		C513	1-163-125-00	CERAMIC CHIP 220PF	5%	50V		
					C514	1-106-228-00	MYLAR 0.22MF	10%	100V		
					C515	1-124-903-11	ELECT 1MF	20%	50V		
					C516	1-137-410-11	FILM 0.001MF	10%	10W		
					C517	1-124-252-00	ELECT 0.33MF	20%	50V		
					C518	1-124-902-00	ELECT 0.47MF	20%	50V		
					C519	1-136-171-00	FILM 0.33MF	5%	50V		
					C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V		
					C521	1-136-165-00	FILM 0.1MF	5%	50V		

The components identified by shading and mark **▲** are critical for safety.  
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**D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C522	1-124-122-11	ELECT	100MF	20%	50V	C824	1-102-212-00	CERAMIC	820PF	10%	500V
C523	1-137-410-11	FILM	0.001MF	10%	100V	C825	1-106-375-12	MYLAR	0.022MF	10%	250V
C524	1-137-367-11	FILM	0.0033MF	5%	50V	C1601▲	1-136-518-12	FILM	0.33MF	20%	300V
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C1602▲	1-136-519-12	FILM	0.47MF	20%	300V
C526	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C1603▲	1-164-246-61	CERAMIC	0.0022MF	20%	400V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	C1605▲	1-164-246-61	CERAMIC	0.0022MF	20%	400V
C531	1-124-190-00	ELECT	680MF	10%	25V	C1607▲	1-161-964-61	CERAMIC	0.0047MF	250V	
C532	1-124-122-11	ELECT	100MF	20%	50V						
C533	1-108-702-11	MYLAR	0.068MF	10%	100V						
C534	1-124-120-11	ELECT	220MF	20%	16V						
C536	1-131-365-00	TANTALUM	10MF	10%	16V						
C537	1-124-903-11	ELECT	1MF	20%	50V	<CONNECTOR>					
C538	1-137-410-11	FILM	0.001MF	10%	100V	D1	*1-568-881-51	PIN, CONNECTOR 6P			
C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	D2	*1-568-882-51	PIN, CONNECTOR 7P			
C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C592	1-124-122-11	ELECT	100MF	20%	50V	D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
C601	1-162-599-12	CERAMIC	0.0047MF		250V	D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C602▲	1-161-964-61	CERAMIC	0.0047MF		250V	D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C603▲	1-161-964-61	CERAMIC	0.0047MF		250V	D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C604▲	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V	D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C605	1-124-510-11	ELECT	220MF	20%	35V	D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
C607	1-136-177-00	FILM	1MF	5%	50V	D44	*1-568-881-51	PIN, CONNECTOR 6P			
C608	1-124-927-11	ELECT	4.7MF	20%	50V	D45	*1-568-881-51	PIN, CONNECTOR 6P			
C611	1-128-571-11	ELECT	56MF	20%	50V	D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
C612	1-137-410-11	FILM	0.001MF	10%	100V	D62▲	*1-565-395-11	PIN, CONNECTOR 3P			
C613	1-136-539-11	FILM	0.0022MF	3%	2KV	D65▲	1-508-765-11	PIN, CONNECTOR (5MM PITCH) 3P			
C614	1-102-030-00	CERAMIC	330PF	10%	500V	D66▲	1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P			
C615	1-128-142-11	ELECT	1500MF	20%	25V	D82	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C616	1-102-030-00	CERAMIC	330PF	10%	500V	D83	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
C617	1-124-514-11	ELECT	100MF	20%	50V	D84	*1-580-798-11	CONNECTOR PIN (DY) 6P			
C618	1-162-115-00	CERAMIC	330PF	10%	2KV	D801	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C619	1-124-556-11	ELECT	2200MF	20%	16V						
C620	1-136-173-00	FILM	0.47MF	5%	50V						
C621	1-124-347-00	ELECT	100MF	20%	160V						
C622	1-128-320-11	ELECT	2200MF	20%	16V	CF001	1-579-126-11	VIBRATOR, CERAMIC			
C623	1-124-910-11	ELECT	47MF	20%	50V	CF501	1-567-888-11	OSCILLATOR, CERAMIC			
C624	1-124-122-11	ELECT	100MF	20%	50V						
C625	1-124-360-00	ELECT	1000MF	20%	16V						
C626	1-124-907-11	ELECT	10MF	20%	50V						
C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D001	8-719-109-97	DIODE RD6.8ESB2			
C631	1-124-927-11	ELECT	4.7MF	20%	50V	D003	8-719-901-33	DIODE 1SS133			
C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D005	8-719-109-89	DIODE RD5.6ESB2			
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D006	8-719-982-24	DIODE MTZJ-33A			
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D007	8-719-109-72	DIODE RD3.9ESB2			
C801	1-126-105-11	ELECT	1000MF	20%	35V	D009	8-719-109-89	DIODE RD5.6ESB2			
C802	1-102-030-00	CERAMIC	330PF	10%	500V	D010	8-719-109-93	DIODE RD6.2ESB2			
C804	1-123-948-00	ELECT	22MF	20%	250V	D011	8-719-109-93	DIODE RD6.2ESB2			
C805	1-162-114-00	CERAMIC	0.0047MF		2KV	D012	8-719-901-33	DIODE 1SS133			
C806	1-136-165-00	FILM	0.1MF	5%	50V	D013	8-719-109-97	DIODE RD6.8ESB2			
C807	1-106-395-00	MYLAR	0.15MF	10%	200V	D015	8-719-109-97	DIODE RD6.8ESB2			
C810	1-123-024-21	ELECT	33MF	10%	160V	D271	8-719-110-31	DIODE RD12ESB2			
C811	1-136-113-00	FILM	2MF	5%	200V	D272	8-719-901-33	DIODE 1SS133			
C812	1-124-634-11	ELECT	1MF	20%	250V	D501	8-719-901-33	DIODE 1SS133			
C813	1-102-212-00	CERAMIC	820PF	10%	500V	D504	8-719-908-03	DIODE GP08D			
C814	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D506	8-719-914-42	DIODE DA204K			
C815	1-136-540-11	FILM	0.82MF	5%	200V	D508	8-719-901-33	DIODE 1SS133			
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV	D509	8-719-901-33	DIODE 1SS133			
C818	1-136-759-11	FILM	0.039MF	10%	630V	D511	8-719-908-03	DIODE GP08D			
C819	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D512	8-719-908-03	DIODE GP08D			
C820	1-136-562-11	MYLAR	0.0082MF	10%	400V	D513	8-719-010-34	DIODE UZ-4.7BSC			
C821	1-162-134-11	CERAMIC	470PF	10%	2KV	D514	8-719-901-33	DIODE 1SS133			
C822	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	D515	8-719-901-33	DIODE 1SS133			
C823	1-136-559-11	MYLAR	0.0047MF	10%	400V	D601	8-719-510-53	DIODE D4SB60L			

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D

**D**

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R012	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R079	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R013	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R080	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R014	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R081	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R015	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R083	1-216-025-00	METAL GLAZE	100	5%	1/10W
R016	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R084	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R017	1-216-689-11	METAL GLAZE	39K	5%	1/10W	R085	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R018	1-216-095-00	METAL GLAZE	82K	5%	1/10W	R086	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R019	1-216-025-00	METAL GLAZE	100	5%	1/10W	R087	1-216-035-00	METAL GLAZE	270	5%	1/10W
R020	1-216-025-00	METAL GLAZE	100	5%	1/10W	R088	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R021	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R093	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R022	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R094	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R024	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R095	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R025	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R096	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R026	1-216-182-91	METAL GLAZE	220	5%	1/8W	R098	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R027	1-216-025-00	METAL GLAZE	100	5%	1/10W	R251	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R028	1-216-025-00	METAL GLAZE	100	5%	1/10W	R252	1-216-039-00	METAL GLAZE	390	5%	1/10W
R029	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R030	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R254	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R031	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R255	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R032	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R256	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R033	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R257	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R034	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R258	1-215-869-11	METAL OXIDE	1K	5%	1W F
R035	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R259	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R036	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R261	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R037	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R262	1-216-039-00	METAL GLAZE	390	5%	1/10W
R038	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R263	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R039	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R264	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R040	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R265	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R041	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R266	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R042	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R267	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R043	1-216-041-00	METAL GLAZE	470	5%	1/10W	R268	1-215-869-11	METAL OXIDE	1K	5%	1W F
R044	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R269	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R045	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R270	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R046	1-216-095-00	METAL GLAZE	82K	5%	1/10W	R271	1-216-045-00	METAL GLAZE	680	5%	1/10W
R047	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R272	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R048	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R049	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R274	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R050	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R500	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R051	1-216-041-00	METAL GLAZE	470	5%	1/10W	R501	1-216-041-00	METAL GLAZE	470	5%	1/10W
R052	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R502	1-216-033-00	METAL GLAZE	220	5%	1/10W
R053	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R503	1-216-035-00	METAL GLAZE	270	5%	1/10W
R054	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R504	1-249-420-11	CARBON	1.8K	5%	1/4W
R055	1-216-037-00	METAL GLAZE	330	5%	1/10W	R505	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R056	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R506	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R057	1-216-025-00	METAL GLAZE	100	5%	1/10W	R509	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R058	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R059	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R514	1-216-033-00	METAL GLAZE	220	5%	1/10W
R060	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R515	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R061	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R517	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R062	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R518	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R063	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R519	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R064	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R520	1-216-037-00	METAL GLAZE	330	5%	1/10W
R065	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R521	1-216-025-00	METAL GLAZE	100	5%	1/10W
R066	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R522	1-215-473-00	METAL CHIP	150K	1%	1/4W
R067	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R523	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R068	1-216-174-00	METAL GLAZE	100	5%	1/8W	R524	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R069	1-216-174-00	METAL GLAZE	100	5%	1/8W	R526	1-249-409-11	CARBON	220	5%	1/4W F
R070	1-216-198-91	METAL GLAZE	1K	5%	1/8W	R527	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R071	1-216-198-91	METAL GLAZE	1K	5%	1/8W	R528	1-216-031-00	METAL GLAZE	180	5%	1/10W
R072	1-216-222-00	METAL GLAZE	10K	5%	1/8W	R529	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R073	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R530	1-249-448-11	CARBON	1.2	5%	1/4W F
R075	1-216-041-00	METAL GLAZE	470	5%	1/10W	R531	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R076	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R532	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R078	1-216-198-91	METAL GLAZE	1K	5%	1/8W						

**D**

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W	R634	1-216-430-11	METAL OXIDE	390 5% 1W F		
R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R643	1-217-189-21	WIREWOUND	0.12 5% 2W F		
R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R651	1-216-025-00	METAL GLAZE	100 5% 1/10W		
R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R653	1-205-758-11	WIREWOUND	100 10% 10W F		
R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F		
R540	1-216-013-00	METAL GLAZE	33 5% 1/10W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F		
R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W		
R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W	R807	1-217-778-11	FUSIBLE	1K 5% 1W F		
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R809	1-202-821-11	SOLID	1.8K 10% 1/2W		
R544	1-247-745-11	CARBON	330 5% 1/2W	R810	1-202-818-00	SOLID	1K 10% 1/2W		
R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R811	1-215-882-00	METAL OXIDE	22 5% 2W F		
R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R812	1-249-492-11	CARBON	47K 5% 1/2W		
R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F		
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R816	1-215-868-00	METAL OXIDE	680 5% 1W F		
R549	1-216-454-11	METAL OXIDE	390 5% 2W F	R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W		
R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R820	1-249-403-11	CARBON	68 5% 1/4W		
R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R821	1-247-725-11	CARBON	10K 5% 1/4W F		
R553	1-215-869-11	METAL OXIDE	1K 5% 1W	R822	1-217-778-11	FUSIBLE	1K 5% 1W F		
R554	1-216-037-00	METAL GLAZE	330 5% 1/10W	R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F		
R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R556	1-216-025-00	METAL GLAZE	100 5% 1/10W	R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W		
R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W		
R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R831	1-249-451-11	CARBON	2.2 5% 1/4W		
R560	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1601 $\Delta$ 1-246-513-75	CARBON	47K 5% 1/4W			
R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1602 $\Delta$ 1-244-945-91	CARBON	1M 5% 1/2W			
R570	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1603 $\Delta$ 1-217-328-11	WIREWOUND	2.7 10% 7W F			
R591	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1604	1-249-465-11	CARBON	47K 5% 1/4W		
R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R5503	1-216-001-00	METAL GLAZE	10 5% 1/10W		
R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W		
R597	1-216-041-00	METAL GLAZE	470 5% 1/10W	R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W		
R598	1-215-901-00	METAL OXIDE	33K 5% 2W F	R1605A $\Delta$ 1-218-265-21	METAL GLAZE	8.2M 5% 1W			
R600	1-249-381-11	CARBON	1 5% 1/4W	<VARIABLE RESISTOR>					
R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F	RV501	1-241-628-11	RES, ADJ, CARBON	2.2K		
R603	1-216-469-11	METAL OXIDE	12 5% 3W	RV502	1-241-630-11	RES, ADJ, CARBON	10K		
R604	1-216-025-00	METAL GLAZE	100 5% 1/10W	RV601	1-241-760-11	RES, ADJ, CARBON	470		
R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W	<SPARK GAP>					
R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	SG801	1-519-422-11	GAP, SPARK			
R607	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	<TRANSFORMER>					
R608	1-216-488-11	METAL OXIDE	18K 5% 3W F	LF1601 $\Delta$ 1-421-866-12	LFT				
R609	1-216-007-00	METAL GLAZE	18 5% 1/10W	LF1602 $\Delta$ 1-421-776-12	LFT				
R610	1-244-941-00	CARBON	680K 5% 1/2W	LF1603 $\Delta$ 1-421-862-11	LFT				
R611	1-216-015-00	METAL GLAZE	39 5% 1/10W	T601 $\Delta$ 1-450-037-11	S.R.T				
R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W	T602 $\Delta$ 1-424-277-11	TRANSFORMER, TRIGGER PULSE				
R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W	<POST PIN>					
R614	1-205-758-11	WIREWOUND	100 10% 10W F	T801	1-437-090-00	HDT			
R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W	T802 $\Delta$ 1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604)				
R617	1-216-037-00	METAL GLAZE	330 5% 1/10W	<TRANSFORMER>					
R618	1-216-431-11	METAL OXIDE	560 5% 1W F	THP601 $\Delta$ 1-808-059-32	THERMISTOR, POSITIVE				
R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W	<THERMISTOR>					
R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W	<POST PIN>					
R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W	TP91 *1-535-084-00	1P TERMINAL PIN				
R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W	*****					
R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W						
R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W						
R625	1-215-865-11	METAL OXIDE	220 5% 1W F						
R626	1-216-037-00	METAL GLAZE	330 5% 1/10W						
R628	1-216-001-00	METAL GLAZE	10 5% 1/10W						
R629	1-216-037-00	METAL GLAZE	330 5% 1/10W						
R631	1-216-465-11	METAL OXIDE	27K 5% 2W F						
R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W						

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

VM V

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
*1-634-193-11	VM BOARD (KV-X2941D)	*****				C5	1-124-120-11	ELECT	220MF	20%	16V
	<CAPACITOR>					C6	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C751	1-101-361-00	CERAMIC	150PF	5%	50V	C7	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C752	1-137-462-11	FILM	0.018MF	5%	100V	C8	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C753	1-106-367-00	MYLAR	0.01MF	10%	400V	C9	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V	C10	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C759	1-124-907-11	ELECT	10MF	20%	50V	C11	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C760	1-124-917-11	ELECT	33MF	20%	50V	C12	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C761	1-101-006-00	CERAMIC	0.047MF		50V	C13	1-163-038-00	CERAMIC CHIP 0.1MF			25V
C762	1-106-367-00	MYLAR	0.01MF	10%	400V	C14	1-124-927-11	ELECT	4.7MF	20%	50V
	<CONNECTOR>					C15	1-124-916-11	ELECT	22MF	20%	50V
VM73	*1-568-878-51	PIN, CONNECTOR 3P				C16	1-163-141-00	CERAMIC CHIP 0.001MF		5%	50V
VM88	1-568-878-51	PIN, CONNECTOR 3P				C17	1-163-141-00	CERAMIC CHIP 0.001MF		5%	50V
	<COIL>					C18	1-163-141-00	CERAMIC CHIP 0.001MF		5%	50V
L751	1-408-413-00	INDUCTOR	22UH			C26	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
L770	1-410-665-31	INDUCTOR	15UH			C27	1-163-117-00	CERAMIC CHIP 100PF		5%	50V
	<CONNECTOR>					C28	1-163-117-00	CERAMIC CHIP 100PF		5%	50V
	<TRANSISTOR>					C29	1-163-117-00	CERAMIC CHIP 100PF		5%	50V
Q751	8-729-119-78	TRANSISTOR	2SC2785-HFE			C32	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
Q752	8-729-119-78	TRANSISTOR	2SC2785-HFE			C33	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
Q753	8-729-140-97	TRANSISTOR	2SB734-34								
Q754	8-729-140-96	TRANSISTOR	2SD774-34								
	<RESISTOR>										
R751	1-249-418-11	CARBON	1.2K	5%	1/4W	D1	8-719-105-91	DIODE RD5.6M-B2			
R752	1-249-426-11	CARBON	5.6K	5%	1/4W	D3	8-719-914-44	DIODE DAP202K			
R753	1-249-414-11	CARBON	560	5%	1/4W	D4	8-719-914-43	DIODE DAN202K			
R754	1-249-434-11	CARBON	27K	5%	1/4W	D5	8-719-914-44	DIODE DAP202K			
R755	1-247-807-31	CARBON	100	5%	1/4W	D6	8-719-914-43	DIODE DAN202K			
	<IC>					D7	8-719-105-52	DIODE RD3.6M-B2			
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	D9	8-719-106-17	DIODE RD6.8M-B2			
R757	1-247-807-31	CARBON	100	5%	1/4W						
R758	1-249-413-11	CARBON	470	5%	1/4W	IC1	8-759-155-78	IC SDA20162-B502			
R760	1-249-414-11	CARBON	560	5%	1/4W	IC2	8-759-045-54	IC SAA5246P/E/M4A			
R761	1-249-429-11	CARBON	10K	5%	1/4W	IC3	8-752-356-72	IC CXK5864CP-10LL			
	<COIL>										
R762	1-247-895-00	CARBON	470K	5%	1/4W	L1	1-408-403-00	INDUCTOR	3.3UH		
R763	1-249-429-11	CARBON	10K	5%	1/4W	L2	1-408-407-00	INDUCTOR	6.8UH		
R764	1-249-389-11	CARBON	4.7	5%	1/4W	F	L3	1-408-407-00	INDUCTOR	6.8UH	
R765	1-249-389-11	CARBON	4.7	5%	1/4W	F	L4	1-408-407-00	INDUCTOR	6.8UH	
R766	1-247-753-11	CARBON	1.2K	5%	1/2W						
	<IC LINK>										
R767	1-247-751-11	CARBON	820	5%	1/2W						
R768	1-215-887-00	METAL OXIDE	150	5%	2W	F					
R769	1-211-791-91	FUSIBLE	220	5%	1/4W	F					
	PS1 A.1-532-679-91	LINK, IC 0.6A									
*A-1645-022-A V BOARD, COMPLETE								<TRANSISTOR>			
	*****										
	<CAPACITOR>										
C1	1-126-101-11	ELECT	100MF	20%	16V	Q1	8-729-900-53	TRANSISTOR DTC114EK			
C2	1-163-038-00	CERAMIC CHIP	0.1MF		25V	Q2	8-729-920-92	TRANSISTOR 2SD2096-EF			
C3	1-124-120-11	ELECT	220MF	20%	16V	Q3	8-729-920-74	TRANSISTOR 2SC2412K-QR			
C4	1-163-077-91	CERAMIC CHIP	0.1MF		50V	Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR			
						Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6			
						Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6			
						Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6			
						Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR			

V	H2	H1
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<RESISTOR>											
JR01	1-216-295-00	METAL GLAZE	0 5%	R49	1-216-049-00	METAL GLAZE	1K 5%				
JR02	1-216-295-00	METAL GLAZE	0 5%	R50	1-216-296-00	METAL GLAZE	0 5%				
JR03	1-216-295-00	METAL GLAZE	0 5%	<VARIABLE RESISTOR>							
JR08	1-216-295-00	METAL GLAZE	0 5%	RV1	1-241-761-11	RES. ADJ. CARBON	1K				
JR09	1-216-295-00	METAL GLAZE	0 5%	<CRYSTAL>							
JR11	1-216-295-00	METAL GLAZE	0 5%	X1	1-579-266-31	CRYSTAL VIBRATOR					
JR14	1-216-296-00	METAL GLAZE	0 5%	X2	1-579-126-11	VIBRATOR, CERAMIC					
JR17	1-216-295-00	METAL GLAZE	0 5%	*****							
JR18	1-216-296-00	METAL GLAZE	0 5%	JR20	1-216-296-00	METAL GLAZE	0 5%				
JR19	1-216-296-00	METAL GLAZE	0 5%	JR21	1-216-296-00	METAL GLAZE	0 5%				
JR20	1-216-296-00	METAL GLAZE	0 5%	JR23	1-216-295-00	METAL GLAZE	0 5%				
JR21	1-216-296-00	METAL GLAZE	0 5%	JR24	1-216-296-00	METAL GLAZE	0 5%				
JR23	1-216-295-00	METAL GLAZE	0 5%	JR25	1-216-296-00	METAL GLAZE	0 5%				
JR24	1-216-296-00	METAL GLAZE	0 5%	*1-638-745-11 H2 BOARD *****							
JR25	1-216-296-00	METAL GLAZE	0 5%	JR26	1-216-296-00	METAL GLAZE	0 5%				
JR26	1-216-296-00	METAL GLAZE	0 5%	JR201	1-216-295-00	METAL GLAZE	0 5%				
JR201	1-216-295-00	METAL GLAZE	0 5%	JR204	1-216-295-00	METAL GLAZE	0 5%				
JR204	1-216-295-00	METAL GLAZE	0 5%	JR207	1-216-295-00	METAL GLAZE	0 5%				
JR207	1-216-295-00	METAL GLAZE	0 5%	JR208	1-216-295-00	METAL GLAZE	0 5%				
JR208	1-216-295-00	METAL GLAZE	0 5%	<CONNECTOR> H2-2 *1-568-882-51 PIN, CONNECTOR 7P							
JR211	1-216-295-00	METAL GLAZE	0 5%	JR213	1-216-295-00	METAL GLAZE	0 5%				
JR213	1-216-295-00	METAL GLAZE	0 5%	JR219	1-216-296-00	METAL GLAZE	0 5%				
JR219	1-216-296-00	METAL GLAZE	0 5%	JR220	1-216-295-00	METAL GLAZE	0 5%				
JR220	1-216-295-00	METAL GLAZE	0 5%	JR223	1-216-295-00	METAL GLAZE	0 5%				
JR223	1-216-295-00	METAL GLAZE	0 5%	<DIODE> D1651 8-719-948-31 DIODE LD-201VR							
R1	1-218-326-11	METAL GLAZE	470 5%	R3	1-216-049-00	METAL GLAZE	1K 5%				
R3	1-216-049-00	METAL GLAZE	1K 5%	R4	1-216-025-00	METAL GLAZE	100 5%				
R4	1-216-025-00	METAL GLAZE	100 5%	R5	1-216-047-00	METAL GLAZE	820 5%				
R5	1-216-047-00	METAL GLAZE	820 5%	R6	1-216-001-00	METAL GLAZE	10 5%				
R6	1-216-001-00	METAL GLAZE	10 5%	1/10W <IC> IC1651 8-741-101-75 IC SBX1610-11							
R7	1-216-083-00	METAL GLAZE	27K 5%	R8	1-216-071-00	METAL GLAZE	8.2K 5%				
R8	1-216-071-00	METAL GLAZE	8.2K 5%	R9	1-216-308-00	METAL GLAZE	4.7 5%				
R9	1-216-308-00	METAL GLAZE	4.7 5%	R02	1-216-214-00	METAL GLAZE	4.7K 5%				
R02	1-216-214-00	METAL GLAZE	4.7K 5%	R10	1-218-325-11	METAL GLAZE	120 5%				
R10	1-218-325-11	METAL GLAZE	120 5%	<RESISTOR> R1662 1-249-413-11 CARBON 470 5% 1/4W							
R11	1-218-325-11	METAL GLAZE	120 5%	R12	1-218-325-11	METAL GLAZE	120 5%				
R12	1-218-325-11	METAL GLAZE	120 5%	R13	1-216-025-00	METAL GLAZE	100 5%				
R13	1-216-025-00	METAL GLAZE	100 5%	R14	1-216-001-00	METAL GLAZE	10 5%				
R14	1-216-001-00	METAL GLAZE	10 5%	R15	1-216-013-00	METAL GLAZE	33 5%				
R15	1-216-013-00	METAL GLAZE	33 5%	1/10W *1-638-744-11 H1 BOARD *****							
R16	1-216-013-00	METAL GLAZE	33 5%	R17	1-216-013-00	METAL GLAZE	33 5%				
R17	1-216-013-00	METAL GLAZE	33 5%	R18	1-216-025-00	METAL GLAZE	100 5%				
R18	1-216-025-00	METAL GLAZE	100 5%	R19	1-216-025-00	METAL GLAZE	100 5%				
R19	1-216-025-00	METAL GLAZE	100 5%	R20	1-216-041-00	METAL GLAZE	470 5%				
R20	1-216-041-00	METAL GLAZE	470 5%	1/10W <CAPACITOR> C1651 1-102-106-00 CERAMIC 100PF 10% 50V							
R21	1-216-041-00	METAL GLAZE	470 5%	R22	1-216-168-00	METAL GLAZE	56 5%				
R22	1-216-168-00	METAL GLAZE	56 5%	R23	1-216-214-00	METAL GLAZE	4.7K 5%				
R23	1-216-214-00	METAL GLAZE	4.7K 5%	R24	1-216-055-00	METAL GLAZE	1.8K 5%				
R24	1-216-055-00	METAL GLAZE	1.8K 5%	R25	1-216-065-00	METAL GLAZE	4.7K 5%				
R25	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W <CONNECTOR> C1652 1-102-106-00 CERAMIC 100PF 10% 50V							
R26	1-216-049-00	METAL GLAZE	1K 5%	R27	1-216-214-00	METAL GLAZE	4.7K 5%				
R27	1-216-214-00	METAL GLAZE	4.7K 5%	R28	1-216-067-00	METAL GLAZE	5.6K 5%				
R28	1-216-067-00	METAL GLAZE	5.6K 5%	R34	1-216-065-00	METAL GLAZE	4.7K 5%				
R34	1-216-065-00	METAL GLAZE	4.7K 5%	R35	1-216-065-00	METAL GLAZE	4.7K 5%				
R35	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W H1-1 *1-568-881-51 PIN, CONNECTOR 6P H1-4 *1-568-879-11 PIN, CONNECTOR 4P H1-02 1-569-473-11 JACK BLOCK, PIN 3P H1-05 1-562-837-11 JACK H1-23 *1-568-879-11 PIN, CONNECTOR 4P							
R40	1-216-065-00	METAL GLAZE	4.7K 5%	R41	1-216-065-00	METAL GLAZE	4.7K 5%				
R41	1-216-065-00	METAL GLAZE	4.7K 5%	R42	1-216-049-00	METAL GLAZE	1K 5%				
R42	1-216-049-00	METAL GLAZE	1K 5%	R44	1-216-295-00	METAL GLAZE	0 5%				
R44	1-216-295-00	METAL GLAZE	0 5%	R46	1-216-065-00	METAL GLAZE	4.7K 5%				
R46	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W <RESISTOR> R1651 1-249-413-11 CARBON 470 5% 1/4W R1652 1-249-413-11 CARBON 470 5% 1/4W							
R47	1-216-065-00	METAL GLAZE	4.7K 5%								

H1 J

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<SWITCH>											
S1651	1-571-532-21	SWITCH, TACTIL		C1416	1-136-165-00	FILM 0.1MF	5% 50V				
S1652	1-571-532-21	SWITCH, TACTIL		C1417	1-124-120-11	ELECT 220MF	20% 16V				
S1653	1-571-532-21	SWITCH, TACTIL		C1418	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
				C1419	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
				C1425	1-124-902-00	ELECT 0.47MF	20% 50V				
*****											
*A-1651-063-A J BOARD, COMPLETE				C1426	1-124-902-00	ELECT 0.47MF	20% 50V				
*****				C1427	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
<CAPACITOR>				C1428	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C203	1-124-925-11	ELECT 2.2MF	20% 50V	C1429	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C205	1-124-927-11	ELECT 4.7MF	20% 50V	C1430	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C206	1-124-925-11	ELECT 2.2MF	20% 50V								
C207	1-124-927-11	ELECT 4.7MF	20% 50V	C1431	1-126-529-11	ELECT 0.47MF	20% 50V				
C213	1-124-916-11	ELECT 22MF	20% 50V	C1432	1-124-902-00	ELECT 0.47MF	20% 50V				
C214	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1433	1-124-122-11	ELECT 100MF	20% 50V				
C217	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1436	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C218	1-106-375-12	MYLAR 0.022MF	10% 250V	C1437	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C219	1-106-375-12	MYLAR 0.022MF	10% 250V	C1438	1-106-367-00	MYLAR 0.01MF	10% 400V				
C220	1-137-413-11	FILM 0.0033MF	10% 100V	C1439	1-106-367-00	MYLAR 0.01MF	10% 400V				
C221	1-137-413-11	FILM 0.0033MF	10% 100V	C1440	1-124-907-11	ELECT 10MF	20% 50V				
C222	1-106-385-00	MYLAR 0.056MF	10% 100V	C1441	1-124-907-11	ELECT 10MF	20% 50V				
C223	1-106-385-00	MYLAR 0.056MF	10% 100V	C1442	1-136-165-00	FILM 0.1MF	5% 50V				
C224	1-106-367-00	MYLAR 0.01MF	10% 400V	C1443	1-136-165-00	FILM 0.1MF	5% 50V				
C225	1-136-173-00	FILM 0.47MF	5% 50V	C1444	1-124-910-11	ELECT 47MF	20% 50V				
C226	1-136-173-00	FILM 0.47MF	5% 50V	C1445	1-102-824-00	CERAMIC 470PF	5% 50V				
C227	1-106-375-12	MYLAR 0.022MF	10% 250V	C1446	1-102-824-00	CERAMIC 470PF	5% 50V				
C228	1-137-104-11	FILM 0.033MF	10% 250V	C1501	1-124-927-11	ELECT 4.7MF	20% 50V				
C229	1-136-204-11	MYLAR 0.015MF	10% 400V	C1502	1-124-903-11	ELECT 1MF	20% 50V				
C230	1-136-204-11	MYLAR 0.015MF	10% 400V	C1503	1-137-410-11	FILM 0.001MF	10% 100V				
C231	1-124-902-00	ELECT 0.47MF	20% 50V	C1504	1-124-910-11	ELECT 47MF	20% 50V				
C232	1-124-907-11	ELECT 10MF	20% 50V	C1505	1-106-383-00	MYLAR 0.047MF	10% 100V				
C233	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1507	1-137-413-11	FILM 0.0033MF	10% 100V				
C234	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1508	1-124-903-11	ELECT 1MF	20% 50V				
C235	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1509	1-124-903-11	ELECT 1MF	20% 50V				
C236	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1511	1-124-927-11	ELECT 4.7MF	20% 50V				
C237	1-124-902-00	ELECT 0.47MF	20% 50V	C1513	1-163-105-00	CERAMIC CHIP 33PF	5% 50V				
C238	1-163-125-00	CERAMIC CHIP 220PF	5% 50V								
C239	1-126-103-11	ELECT 470MF	20% 16V	<CONNECTOR>							
C240	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	CN1401	1-565-838-11	JACK BLOCK, PIN 2P					
C241	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	J1402	1-561-534-41	SOCKET, PIN 21P					
C242	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1403	1-561-534-41	SOCKET, PIN 21P					
C243	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P					
C244	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-43	1-564-524-11	PLUG, CONNECTOR 9P					
C245	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-44	*1-564-527-11	PLUG, CONNECTOR 12P					
C246	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P					
<DIODE>											
C1401	1-124-907-11	ELECT 10MF	20% 50V	D201	8-719-110-14	DIODE RD9.1ESB3					
C1402	1-126-103-11	ELECT 470MF	20% 16V	D202	8-719-110-14	DIODE RD9.1ESB3					
C1403	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D205	8-719-110-03	DIODE RD7.5ESB2					
C1404	1-136-165-00	FILM 0.1MF	5% 50V	D206	8-719-110-03	DIODE RD7.5ESB2					
C1405	1-163-029-11	CERAMIC CHIP 0.0047MF	50V	D1401	8-719-110-03	DIODE RD7.5ESB2					
C1406	1-136-165-00	FILM 0.1MF	5% 50V	D1403	8-719-110-03	DIODE RD7.5ESB2					
C1407	1-124-910-11	ELECT 47MF	20% 50V	D1404	8-719-110-03	DIODE RD7.5ESB2					
C1408	1-124-122-11	ELECT 100MF	20% 50V	D1405	8-719-110-03	DIODE RD7.5ESB2					
C1409	1-124-916-11	ELECT 22MF	20% 50V	D1406	8-719-110-03	DIODE RD7.5ESB2					
C1410	1-124-907-11	ELECT 10MF	20% 50V	D1407	8-719-921-77	DIODE MTZN-10C					
C1411	1-124-907-11	ELECT 10MF	20% 50V	D1408	8-719-110-14	DIODE RD9.1ESB3					
C1412	1-124-910-11	ELECT 47MF	20% 50V	D1409	8-719-110-14	DIODE RD9.1ESB3					
C1413	1-124-910-11	ELECT 47MF	20% 50V	D1410	8-719-110-14	DIODE RD9.1ESB3					
C1414	1-124-907-11	ELECT 10MF	20% 50V	D1415	8-719-110-03	DIODE RD7.5ESB2					
C1415	1-136-165-00	FILM 0.1MF	5% 50V	D1418	8-719-110-03	DIODE RD7.5ESB2					
				D1419	8-719-110-03	DIODE RD7.5ESB2					
				D1420	8-719-110-03	DIODE RD7.5ESB2					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1421	8-719-110-03	DIODE RD7.5ESB2		R231	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D1422	8-719-110-03	DIODE RD7.5ESB2		R232	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D1423	8-719-110-03	DIODE RD7.5ESB2		R233	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D1424	8-719-110-03	DIODE RD7.5ESB2		R234	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D1425	8-719-110-03	DIODE RD7.5ESB2		R235	1-216-295-00	METAL GLAZE 0 5%	1/10W
D1426	8-719-110-03	DIODE RD7.5ESB2		R236	1-216-295-00	METAL GLAZE 0 5%	1/10W
D1501	8-719-046-65	DIODE BA157GP-AMP		R240	1-216-033-00	METAL GLAZE 220 5%	1/10W
D1502	8-719-901-33	DIODE 1SS133		R241	1-216-091-00	METAL GLAZE 56K 5%	1/10W
D1503	8-719-901-33	DIODE 1SS133		R242	1-216-091-00	METAL GLAZE 56K 5%	1/10W
D1504	8-719-901-33	DIODE 1SS133		R243	1-216-075-00	METAL GLAZE 12K 5%	1/10W
D1505	8-719-901-33	DIODE 1SS133		R244	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D1506	8-719-982-33	DIODE MTZJ-36D		R245	1-216-075-00	METAL GLAZE 12K 5%	1/10W
D1507	8-719-901-33	DIODE 1SS133		R246	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D1510	8-719-901-33	DIODE 1SS133		R247	1-216-075-00	METAL GLAZE 12K 5%	1/10W
				R248	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
<IC>				R249	1-216-075-00	METAL GLAZE 12K 5%	1/10W
IC201	8-759-013-17	IC TDA6200		R250	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
IC1401	8-752-032-27	IC CXA1114P		R1400	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC1402	8-759-946-32	IC TEA2014A		R1401	1-216-023-00	METAL GLAZE 82 5%	1/10W
IC1403	8-759-140-53	IC UPD4053BC		R1402	1-216-170-00	METAL GLAZE 68 5%	1/8W
IC1501	8-759-942-16	IC TEA2031A		R1403	1-216-089-91	METAL GLAZE 47K 5%	1/10W
<TRANSISTOR>				R1404	1-216-178-00	METAL GLAZE 150 5%	1/8W
Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1405	1-249-434-11	CARBON 27K 5%	1/4W
Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1407	1-216-113-00	METAL GLAZE 470K 5%	1/10W
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R1408	1-216-089-91	METAL GLAZE 47K 5%	1/10W
Q1402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1409	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q1403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1410	1-216-089-91	METAL GLAZE 47K 5%	1/10W
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G		R1411	1-216-041-00	METAL GLAZE 470 5%	1/10W
<RESISTOR>				R1412	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R201	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R1413	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R202	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R1414	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R203	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R1415	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R204	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1416	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R205	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1417	1-216-023-00	METAL GLAZE 82 5%	1/10W
R206	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R1418	1-247-738-11	CARBON 82 5%	1/2W F
R207	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R1419	1-216-295-00	METAL GLAZE 0 5%	1/10W
R208	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1420	1-216-295-00	METAL GLAZE 0 5%	1/10W
R209	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1421	1-216-295-00	METAL GLAZE 0 5%	1/10W
R210	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1422	1-216-025-00	METAL GLAZE 100 5%	1/10W
R211	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R1423	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R212	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1424	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R213	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1425	1-216-045-00	METAL GLAZE 680 5%	1/10W
R214	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1426	1-216-025-00	METAL GLAZE 100 5%	1/10W
R215	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1427	1-216-001-00	METAL GLAZE 10 5%	1/10W
R216	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1428	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R217	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1429	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R218	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1430	1-216-170-00	METAL GLAZE 68 5%	1/8W
R219	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1431	1-216-041-00	METAL GLAZE 470 5%	1/10W
R220	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R1432	1-216-041-00	METAL GLAZE 470 5%	1/10W
R221	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1433	1-216-033-00	METAL GLAZE 220 5%	1/10W
R222	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1434	1-249-393-11	CARBON 10 5%	1/4W F
R223	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1437	1-249-434-11	CARBON 27K 5%	1/4W
R224	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1440	1-216-045-00	METAL GLAZE 680 5%	1/10W
R225	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1441	1-216-045-00	METAL GLAZE 680 5%	1/10W
R226	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1442	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R227	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1443	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R228	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1444	1-216-033-00	METAL GLAZE 220 5%	1/10W
R229	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R1445	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R230	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R1446	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R1447	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R1448	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R1449	1-216-023-00	METAL GLAZE 82 5%	1/10W
				R1452	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R1453	1-216-049-00	METAL GLAZE 1K 5%	1/10W

**RM-816**

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W		A-1654-005-A	IFG BOARD, COMPLETE
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W			*****
R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W			
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W			
R1460	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W			<CAPACITOR>
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W	C1	1-163-031-11	CERAMIC CHIP 0.01MF
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C2	1-163-031-11	CERAMIC CHIP 0.01MF
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C3	1-163-031-11	CERAMIC CHIP 0.01MF
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C4	1-163-031-11	CERAMIC CHIP 0.01MF
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	C5	1-163-031-11	CERAMIC CHIP 0.01MF
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	C6	1-163-031-11	CERAMIC CHIP 0.01MF
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	C7	1-124-903-11	ELECT 1MF
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	C8	1-124-907-11	ELECT 10MF
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	C9	1-130-471-00	MYLAR 0.001MF
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	C10	1-163-121-00	CERAMIC CHIP 150PF
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	C11	1-163-119-00	CERAMIC CHIP 120PF
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	C12	1-136-298-00	FILM 0.0033MF
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W	C13	1-124-477-11	ELECT 47MF
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C14	1-124-477-11	ELECT 47MF
R1476	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C15	1-124-477-11	ELECT 47MF
R1477	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C16	1-124-477-11	ELECT 47MF
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C17	1-124-907-11	ELECT 10MF
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W	C18	1-106-367-00	MYLAR 0.01MF
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W	C19	1-106-367-00	MYLAR 0.01MF
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W	C20	1-124-916-11	ELECT 22MF
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C21	1-124-916-11	ELECT 22MF
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C22	1-136-165-00	FILM 0.1MF
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C23	1-106-228-00	MYLAR 0.22MF
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C23	1-136-169-00	FILM 0.22MF
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C24	1-124-034-51	ELECT 33MF
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C25	1-106-375-12	MYLAR 0.022MF
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C26	1-106-383-00	MYLAR 0.047MF
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C27	1-124-903-11	ELECT 1MF
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C28	1-163-109-00	CERAMIC CHIP 47PF
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W	C29	1-124-903-11	ELECT 1MF
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C30	1-124-903-11	ELECT 1MF
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C31	1-106-367-00	MYLAR 0.01MF
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W	C32	1-130-479-00	MYLAR 0.0047MF
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	C33	1-163-081-00	CERAMIC CHIP 0.22MF
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C34	1-106-228-00	MYLAR 0.22MF
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C34	1-136-169-00	FILM 0.22MF
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W	C35	1-124-907-11	ELECT 10MF
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C36	1-163-119-00	CERAMIC CHIP 120PF
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C37	1-124-477-11	ELECT 47MF
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W	C38	1-124-477-11	ELECT 47MF
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W	C39	1-163-133-00	CERAMIC CHIP 470PF
R1520	1-216-111-00	METAL GLAZE	390K	5%	1/10W			
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W			
R1550	1-216-349-00	METAL OXIDE	1	5%	1W			
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W			
						F		<CONNECTOR>

### **<VARIABLE RESISTOR>**

RV1501 1-241-769-11 RES, ADJ, CARBON 47OK  
RV1502 1-241-630-11 RES, ADJ, CARBON 10K  
RV1503 1-241-765-11 RES, ADJ, CARBON 22K  
RV1504 1-241-761-11 RES, ADJ, CARBON 1K

RV1506 1-241-765-11 RES, ADJ, CARBON 22K  
RV1507 1-241-759-21 RES, ADJ, CARBON 220  
RV1508 1-241-630-11 RES, ADJ, CARBON 10K  
RV1509 1-241-769-11 RES, ADJ, CARBON 470K

<FILTER>

CDA1 1-404-751-11 DISCRIMINATOR, CERAMIC  
CDA2 1-404-750-11 DISCRIMINATOR, CERAMIC  
SFT1 1-527-840-00 FILTER, CERAMIC  
SFT2 1-527-839-00 FILTER, CERAMIC

## <DIODE>

D3 8-719-914-43 DIODE DAN202K

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The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

IFG

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<IC>								
IC1	8-759-003-90	IC TBA129		ACCESSORIES AND PACKING MATERIALS				
IC2	8-759-003-90	IC TBA129		*****				
IC3	8-759-030-48	IC TDA6600-2		4-202-215-11	MANUAL, INSTRUCTION			
IC4	8-759-513-48	IC TDA2595/V9		*4-202-613-02	INDIVIDUAL CARTON			
<COIL>								
L1	1-408-410-00	INDUCTOR	12UH	CUSHION (LOWER) (ASSY)				
L2	1-408-410-00	INDUCTOR	12UH	CUSHION (UPPER) (ASSY)				
L3	1-410-064-11	INDUCTOR	2.7MMH	BAG, PROTECTION				
L4	1-408-421-00	INDUCTOR	100UH	*****				
L5	1-408-421-00	INDUCTOR	100UH	REMOTE COMMANDER				
<TRANSISTOR>								
Q2	8-729-901-00	TRANSISTOR DTC124EK		1-465-796-11	CONTROL UNIT, REMOTE (RM-816)			
Q3	8-729-216-22	TRANSISTOR 2SA1162-G		4-031-670-01	COVER, POCKET (FOR RM-816)			
Q4	8-729-901-00	TRANSISTOR DTC124EK		*****				
<RESISTOR>								
JR8	1-216-296-00	METAL GLAZE	0	5%	1/8W			
JR10	1-216-296-00	METAL GLAZE	0	5%	1/8W			
R1	1-216-045-00	METAL GLAZE	680	5%	1/10W			
R2	1-216-043-00	METAL GLAZE	560	5%	1/10W			
R3	1-216-043-00	METAL GLAZE	560	5%	1/10W			
R5	1-216-045-00	METAL GLAZE	680	5%	1/10W			
R6	1-216-043-00	METAL GLAZE	560	5%	1/10W			
R7	1-216-043-00	METAL GLAZE	560	5%	1/10W			
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W			
R11	1-216-095-00	METAL GLAZE	82K	5%	1/10W			
R12	1-216-097-00	METAL GLAZE	100K	5%	1/10W			
R13	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W			
R15	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W			
R16	1-216-097-00	METAL GLAZE	100K	5%	1/10W			
R17	1-216-097-00	METAL GLAZE	100K	5%	1/10W			
R18	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W			
R19	1-216-097-00	METAL GLAZE	100K	5%	1/10W			
R20	1-216-075-00	METAL GLAZE	12K	5%	1/10W			
R22	1-216-099-00	METAL GLAZE	120K	5%	1/10W			
R24	1-216-089-91	METAL GLAZE	47K	5%	1/10W			
R25	1-216-077-00	METAL GLAZE	15K	5%	1/10W			
<VARIABLE RESISTOR>								
RV1	1-241-630-11	RES, ADJ, CARBON 10K		*****				
RV2	1-238-019-11	RES, ADJ, CARBON 47K		*****				
MISCELLANEOUS								
*****								
$\Delta$ 1-426-398-11	COIL, DEMAGNETIZATION							
$\Delta$ 1-451-313-21	DEFLECTION YOKE (Y29FXA)							
$\Delta$ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)							
1-544-525-11	SPEAKER							
$\Delta$ 1-690-296-11	CORD, POWER(WITH NOISE FILTER) 2.5A/250V							
V901 $\Delta$ 8-733-831-05	PICTURE TUBE (A68JYL61X)							
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